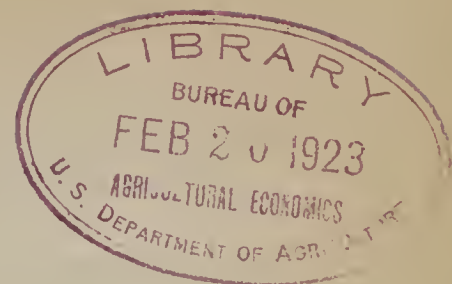


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UNITED STATES DEPARTMENT OF AGRICULTURE
STATES RELATIONS SERVICE
A. C. TRUE, DIRECTOR



LIST OF STATION PUBLICATIONS
RECEIVED BY THE STATES RELATIONS SERVICE
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NOTE.--The station publications noted in this list ARE NOT DISTRIBUTED BY THE DEPARTMENT OF AGRICULTURE, but can usually be obtained, as far as the supply will permit, by applying to the stations issuing them. An address list of the stations will be furnished upon request.

- Fertilizer Experiments with Citrus Trees. By R. S. Vaile. (California Sta. Bul. 345, pp. 465-512, figs. 13.)
- Almond Pollination. By W. P. Tufts and G. L. Philp. (California Sta. Bul. 346, pp. 35, figs. 15.)
- Pruning Young Olive Trees. By F. T. Bioletti. (California Sta. Bul. 348, pp. 87-110, figs. 8.)
- Vineyard Plans. By F. T. Bioletti. (California Sta. Circ. 253, pp. 12, figs. 4.)
- Degeneration in Colorado Potatoes. By E. P. Sandsten and C. M. Tompkins. (Colorado Sta. Bul. 278, pp. 15, figs. 8.)
- Annual Report, 1922. (Delaware Sta. Bul. 133, pp. 36, figs. 7.)
- Steer Feeding Experiments. By C. W. Hickman and E. F. Rinehart. (Idaho Sta. Circ. 28, pp. 8, fig. 1.)
- Lamb Feeding Experiments. By C. W. Hickman and E. F. Rinehart. (Idaho Sta. Circ. 29, pp. 8, fig. 1.)
- Clothing Club Manual. By Mary C. Whitlock and Harriet M. Phillips. (Illinois Sta. Circ. 264, pp. 88, figs. 65.)
- Accounting Records for Live-stock Shipping Associations. By F. Robotka. (Iowa Sta. Bul. 209, pp. 145-200, pls. 5, figs. 12.)
- Influence of Age at the Time of Freshening on Production of Dairy Cows. By A. C. McCandlish. (Iowa Sta. Res. Bul. 73, pp. 243-255.)
- Saving the Orphan Pigs. By J. M. Evvard and G. V. Glatfelter. (Iowa Sta. Circ. 80, pp. 11.)
- Feeding the Brood Sow. By J. M. Evvard and C. C. Culbertson. (Iowa Sta. Circ. 81, pp. 4.)

- Soil Survey of Iowa, Winnebago County. By W. H. Stevenson et al. (Iowa Sta. Soil Survey Rpt. 23, pp. 60, map 1, figs. 11.)
- Soil Survey of Iowa, Polk County. By W. H. Stevenson et al. (Iowa Sta. Soil Survey Rpt. 24, pp. 72, map 1, figs. 11.)
- Farm Storage as a Factor in the Marketing of Kansas Wheat. By R. M. Green. (Kansas Sta. Bul. 229, pp. 32, figs. 6.)
- Feeding Steers Having Access to Barn and Range vs. Steers Confined to Barn. By E. S. Good. (Kentucky Sta. Bul. 242, pp. 115-135, figs. 7.)
- Thirty-fourth Annual Report, 1921. (Kentucky Sta. Rpt. 34 (1921), Pt. 2, pp. 505 + 34 + IV, figs. 49.)
- The Relation of Tree Type to Productivity in the Apple. By K. Sax and J. W. Gowen. (Maine Sta. Bul. 305, pp. 20, pls. 4, figs. 3.)
- Work of the Seed Inspection Laboratory for the Year 1921. By F. S. Holmes. (Maryland Sta. Bul. 249, pp. 189-206.)
- Changes in Egg Production in the Station Flock. By H. D. Goodale and Ruby Sanborn. (Massachusetts Sta. Bul. 211, pp. 99-125, figs. 16.)
- Inspection of Commercial Feedstuffs. By P. H. Smith and Ethel M. Bradley. (Massachusetts Sta. Control Ser. Bul. 19, pp. 34.)
- Inspection of Commercial Fertilizers. By H. D. Haskins, L. S. Walker, and R. W. Swift. (Massachusetts Sta. Control Ser. Bul. 20, pp. 42.)
- Inspection of Lime Products Used in Agriculture. By H. D. Haskins, L. S. Walker, and R. W. Swift. (Massachusetts Sta. Control Ser. Bul. 21, pp. 7, fig. 1.)
- Meteorological Observations at the Massachusetts Agricultural Experiment Station. By J. E. Ostrander and G. E. Lindskog. (Massachusetts Sta. Met. Bul. 408, pp. 4.)
- Annual Report, 1921. (Massachusetts Sta. Rpt. 34 (1921), Pts. 1 and 2, pp. 79a + 179, pls. 5, figs. 12.)
- Potato Culture in Michigan. By H. C. Moore. (Michigan Sta. Spec. Bul. 117, pp. 32, figs. 20.)
- Pruning Fruit Trees. By R. E. Marshall. (Michigan Sta. Spec. Bul. 118, pp. 39, figs. 39.)
- The Grape-berry Moth in 1922. By R. H. Pettit. (Michigan Sta. Circ. Bul. 52, pp. 4, figs. 4.)

- Standard Fertilizers for Michigan. By M. M. McCool, G. M. Grantham, and P. M. Harmer. (Michigan Sta. Circ. Bul. 53, pp. 4.)
- Lime for Van Buren County Soils. By M. M. McCool, J. O. Veatch, and F. W. Trull. (Michigan Sta. Circ. Bul. 54, pp. 4, fig. 1.)
- Sale Prices as a Basis for Farm Land Appraisal. By G. C. Haas. (Minnesota Sta. Tech. Bul. 9, pp. 31, figs. 2.)
- Factors Determining the Price of Potatoes in St. Paul and Minneapolis. By H. Working. (Minnesota Sta. Tech. Bul. 10, pp. 41, figs. 8.)
- Mississippi Bark Beetles. By M. W. Blackman. (Mississippi Sta. Tech. Bul. 11, pp. 130, pls. 13, fig. 1.)
- New Knowledge. (Missouri Sta. Bul. 197, pp. 95, figs. 17.)
- Scarred Endosperm and Size Inheritance in Kernels of Maize. By W. H. Eyster. (Missouri Sta. Res. Bul. 52, pp. 10, pls. 2, figs. 2.)
- The Relation of Temperature to Blossoming in the Apple and the Peach. By F. C. Bradford. (Missouri Sta. Res. Bul. 53, pp. 51, figs. 9.)
- Studies in Animal Nutrition.--II, Changes in Proportions of Carcass and Offal on Different Planes of Nutrition. By C. R. Moulton, P. F. Trowbridge, and L. D. Haigh. (Missouri Sta. Res. Bul. 54, pp. 76, pl. 1, figs. 27.)
- Studies in Animal Nutrition.--III, Changes in Chemical Composition on Different Planes of Nutrition. By C. R. Moulton, P. F. Trowbridge, and L. D. Haigh. (Missouri Sta. Res. Bul. 55, pp. 88, figs. 20.)
- Winter Injury of Fruit in Missouri. By F. C. Bradford. (Missouri Sta. Circ. 107, pp. 7.)
- Care and Management of Sheep on the Farm. By W. E. Joseph. (Montana Sta. Circ. 105, pp. 29, figs. 12.)
- Twenty-eighth Annual Report, 1921. (Montana Sta. Rpt. 28 (1921), pp. 94, figs. 40.)
- Experiments with Poisoned Baits for Grasshoppers. By M. H. Swenk and E. E. Wehr. (Nebraska Sta. Bul. 183, pp. 28, fig. 1.)
- 100 Worth While Accomplishments of the College of Agriculture the Past Two Years. (Nebraska Sta. Circ. 18, pp. 12.)
- Inspection of Commercial Feeding-stuffs. By H. R. Kraybill, T. O. Smith, and C. P. Spaeth. (New Hampshire Sta. Bul. 205, pp. 51.)

Analyses of Commercial Fertilizers, Fertilizer Supplies and Home Mixtures.
By C. S. Cathcart. (New Jersey Stas. Bul. 371, pp. 35, fig. 1.)

Cranberry Growing in New Jersey. By C. S. Beckwith. (New Jersey Stas. Circ. 144, pp. 39, figs. 28.)

The Winter-time Management of the Laying Flock. By W. C. Thompson. (New Jersey Stas. Circ. 145, pp. 32, figs. 28.)

Report of Egg Laying Contests for 1922. By R. R. Hannas and F. H. Clickner. (New Jersey Stas. Hints to Poultrymen 11, No. 3, pp. 4.)

The Clover Leaf Weevil. By G. W. Herrick and C. H. Hadley, Jr. (New York Cornell Sta. Bul. 411, pp. 12, pls. 2, figs. 4.)

The Cabbage Maggot, with Special Reference to Its Control. By G. W. Herrick and W. Colman. (New York Cornell Sta. Bul. 413, pp. 15, figs. 8.)

The Linkage of Certain Aleurone and Endosperm Factors in Maize, and Their Relation to Other Linkage Groups. By C. B. Hutchison. (New York Cornell Sta. Memoir 60, pp. 1421-1473, figs. 3.)

Varietal Trials with Oats in North Dakota. By T. E. Stoa. (North Dakota Sta. Bul. 164, pp. 47, figs. 7.)

Cost of Production and Farm Organization. By R. E. Willard, H. Metzger, and T. S. Thorfinnson. (North Dakota Sta. Bul. 165, pp. 129, figs. 8.)

Ohio Weather for 1921. By W. H. Alexander and C. A. Patton. (Ohio Sta. Bul. 360, pp. 217-312, figs. 63.)

Monthly Bulletin of the Ohio Agricultural Experiment Station. (Ohio Sta. Mo. Bul. 7, Nos. 11, 12, pp. 169-215, figs. 25.)

Infectious Abortion of Cattle. By B. T. Simms and F. W. Miller. (Oregon Sta. Bul. 192, pp. 12, fig. 1.)

Oats and Vetch Versus Corn or Sunflowers for Silage. By R. C. Jones. (Oregon Sta. Bul. 194, pp. 20, figs. 2.)

Stump Land Reclamation in Oregon. By H. D. Scudder. (Oregon Sta. Bul. 195, pp. 62, figs. 40.)

Director's Biennial Report, 1920-1922. (Oregon Sta. Bien. Rpt. 1921-22, pp. 104.)

Annual Report of the Director, 1922. (Pennsylvania Sta. Bul. 176, pp. 22.)

Dairying in Porto Rico. By D. W. May. (Porto Rico Sta. Bul. 29, pp. 19, pls. 4.)

Thirty-fifth Annual Report, 1922. (South Carolina Sta. Rpt. 35 (1922), pp. 72, figs. 23.)

An Economic Study of a Typical Ranching Area on the Edwards Plateau of Texas. By B. Youngblood and A. B. Cox. (Texas Sta. Bul. 297, pp. 437, figs. 73.)

Organic Constituents of the Soil. By G. S. Fraps. (Texas Sta. Bul. 300, pp. 14.)

Soils of Bell, Jefferson, Smith, Taylor, and Webb Counties. By G. S. Fraps. (Texas Sta. Bul. 301, pp. 66, figs. 7.)

The Needs of the Soils of Brazos and Jefferson Counties for Sulphur. By S. Lomanitz. (Texas Sta. Bul. 302, pp. 23, figs. 2.)

Commercial Feeding Stuffs. By B. Youngblood. (Texas Sta. Bul. 303, pp. 192.)

The Irrigation of Barley. By F. S. Harris and D. W. Pittman. (Utah Sta. Bul. 178, pp. 19, figs. 10.)

The Dusting of Wheat for Bunt or Stinking Smut. By F. D. Heald and L. J. Smith. (Washington College Sta. Bul. 171, pp. 28, figs. 5.)

The Orchard Leaf Roller. By A. Spuler. (Washington Col. Sta. Bul. 172, pp. 9.)

The Cost of Producing Milk, and Dairy Farm Organization in Western Washington. By G. Severance and E. R. Johnson. (Washington Col. Sta. Bul. 173, pp. 50, figs. 3.)

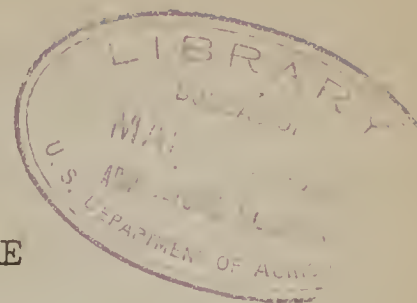
Bimonthly Bulletin of the Western Washington Experiment Station, Puyallup, Wash. (Western Washington Sta. Bimo. Bul. 10, No. 5, pp. 90-112.)

Farming the Silt Loams of Central Wisconsin. By F. L. Musbach. (Wisconsin Sta. Bul. 347, pp. 36, figs. 17.)

Comparison of Corn Ensilage and Sunflower Ensilage for Dairy Cows. By W. L. Quayle. (Wyoming Sta. State Farms Bul. 3, pp. 11, fig. 1.)

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UNITED STATES DEPARTMENT OF AGRICULTURE
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Tractor Situation in Alabama. By M.L. Nichols and J.W. Randolph. (Alabama Sta. Circ. 46, pp. 7, fig. 1.)

Life History of the Kangaroo Rat, *Dipodomys spectabilis spectabilis* Merriam. By C.T. Vorhies and W.P. Taylor. (Arizona Sta. Tech Bul. 1, pp. 40, pls. 9, figs. 3.)

Measurement of Irrigation Water on the Farm. By H.A. Wadsworth. (California Sta. Circ. 250, pp. 36, figs. 17.)

The Use of Artificial Light to Increase Winter Egg Production. By J.E. Dougherty. (California Sta. Circ. 254, pp. 6, fig. 1.)

Tobacco Diseases in Gadsden County in 1922 with Suggestions for Their Prevention and Control. By W.B. Tisdale. (Florida Sta. Bul. 166, pp. 73-118, figs. 15.)

Annual Report, 1919-20. (Georgia Coastal Plain Sta. Bul. 1, pp. 22, figs. 11.)

Comparative Expense of Mechanical and Hand Milking. By F.A. Pearson and H.A. Ross. (Illinois Sta. Bul. 241, pp. 493-506.)

Adams County Soils. By J.G. Mosier et al. (Illinois Sta. Soil Rpt. 24, pp. 62, maps 4, figs. 9.)

Inspection of Agricultural Seeds. By E.G. Proulx et al. (Indiana Sta. Bul. 264, pp. 56, fig. 1.)

Self-feeders for Swine. By J.M. Evvard, J.B. Davidson, and W.A. Foster. (Iowa Sta. Bul. 208, pp. 97-143, figs. 50.)

Work of the Kansas Agricultural Experiment Station during the Biennium Ending June 30, 1922. (Kansas Sta. Director's Rpt. 1920-1922, pp. 45, figs. 5.)

The Sugar Cane Mealy Bug and Its Control in Louisiana. By E. R. Barber. (Louisiana Sta. Bul. 185, pp. 16, figs. 6.)

- Influence of Grape Training on Fruit Production. By F.C. Auchter and W.R. Ballard. (Maryland Sta. Bul. 250, pp. 207-234, figs. 22.)
- A Thirty-year Fertilizer Test. By S.B. Haskell. (Massachusetts Sta. Bul. 212, pp. 127-158, pls. 2, figs. 3.)
- Meteorological Observations at the Massachusetts Agricultural Experiment Station. By J.E. Ostrander and G.E. Lindskog. (Massachusetts Sta. Met. Bul. 409, pp. 4.)
- The Occurrence of Protozoa in Plants Affected with Mosaic and Related Diseases. By R. Nelson. (Michigan Sta. Tech Bul. 58, pp. 30, figs. 18.)
- Cattle Feeding Investigations. By W.H. Peters and N.K. Carnes. (Minnesota Sta. Bul. 200, pp. 33, figs. 12.)
- Additional Instructions for Laying out and constructing the Mangum Terrace. By P. Bain, Jr. (Missouri Sta. Circ. 98, Sup. 1922, pp. 2.)
- Eighth Report of the Montana Grain Inspection Laboratory. (Montana Sta. Bul. 149, pp. 24, fig. 1.)
- Feeding and Managing Dairy Cows in Montana. By J.O. Tretsven. (Montana Sta. Circ. 106, pp. 16, figs. 9.)
- Feeding and Management of Breeding Swine. By W.E. Joseph. (Montana Sta. Circ. 107, pp. 21, figs. 14.)
- Growth Studies of Dairy Heifers.--II, Protein Requirements for Growing Heifers. (Nebraska Sta. Bul. 184, pp. 18.)
- State Wide Activities of the College of Agriculture. (Nebraska Sta. Circ. 19, pp. 13, figs. 11.)
- Inspection of Commercial Fertilizers for 1922. By H.R. Kraybill, T.O. Smith, and C.P. Spaeth. (New Hampshire Sta. Bul. 206, pp. 16.)
- Results of Seed Tests for 1922. By M.G. Eastman. (New Hampshire Sta. Bul. 207, pp. 16.)
- New Jersey Poultry Houses. By W.C. Thompson, W.P. Thorp, Jr., and G.H. Pound. (New Jersey Sta. Bul. 370, pp. 56, figs. 39.)
- Egg Production and Costs on New Jersey Poultry Farms. By W.H. Allen. (New Jersey Stas. Hints to Poultrymen, 11 (1923), No. 4, pp. 4.)
- Baby Chick Troubles. By G.H. Pound. (New Jersey Stas. Hints to Poultrymen 11(1923), No. 5, pp. 4, fig. 1.)

Methods of Determining the Number of Microorganisms in Tomato Products.

By C.A. Darling. (New York State Sta. Tech. Bul. 91, pp. 56.)

Forty-first Annual Report, 1922. (New York State Sta. Rpt. 41 (1922), pp. 51.)

Prices of Farm Products in New York. By G.F. Warren. (New York Cornell Sta. Bul. 416, pp. 63, figs. 16.)

Thirty-fifth Annual Report of the New York Cornell Station, 1922. (New York Cornell Sta. Rpt. 35, pp. 47-73.)

Farmers' Market Bulletin. (North Carolina Sta. Farmers' Market Bul. 9(1922), No. 58, pp. 8.)

Farmers' Market Bulletin. (North Carolina Sta. Farmers' Market Bul. 10 (1923), No. 59, pp. 8.)

Kota Wheat. By L.R. Waldron, T.E. Stoa, and C.E. Mangels. (North Dakota Sta. Circ. 19, pp. 10, figs. 3.)

The Feeding Power of Certain Cereals, and Their Response to Fertilizer Ingredients. By B.L. Hartwell and F.R. Pember. (Rhode Island Sta. Bul. 190, pp. 27, figs. 2.)

Thirty-fourth Annual Report, 1921. (Texas Sta. Rpt. 34(1921), pp. 48.)

Water-holding Capacity of Irrigated Soils. By O. W. Isrealson and F.L. West. (Utah Sta. Bul. 183, pp. 24, figs. 7.)

Marketing Vermont Maple-sap Products. By A.W. McKay. (Vermont Sta. Bul. 227, pp. 48, figs. 8.)

Commercial Fertilizers, Commercial Feeding Stuffs, Agricultural Seed. By J.L. Hills, et al. (Vermont Sta. Bul. 228, pp. 32)

The Protein and the Maintenance Requirements of Dairy Cattle. By J.L. Hills. (Vermont Sta. Bul. 229, pp. 9.)

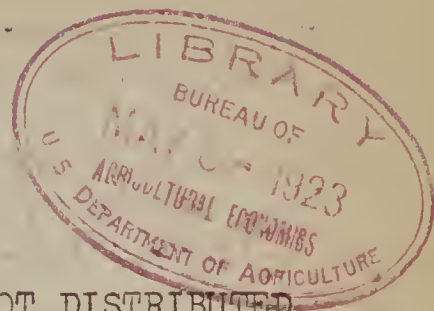
Experiments in Spraying and Dusting Tomatoes. By F.D. Fromme. (Virginia Sta. Bul. 230, pp. 15, figs. 5.)

Thirty-second Annual Report, 1922. (Washington College Sta. Bul. 175, pp. 62, figs. 2.)

Tobacco Wildfire in Wisconsin. By J. Johnson and S.B. Fracker. (Wisconsin Sta. Bul. 348, pp. 21, figs. 11.)

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LIST OF STATION PUBLICATIONS
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Fertilizer experiments with cotton. J. T. Williamson and M. J. Funchess. (Alabama Sta. Bul. 219, pp. 24, figs. 2; Mar., 1923.)

Results of cotton variety tests. (Alabama Sta. Circ. 47, pp. 10, fig. 1, Feb., 1923.)

Agriculture in cut-over redwood lands. W. T. Clarke. (California Sta. Bul. 350, pp. 165-186, figs. 9, Oct., 1922.)

Further experiments in plum pollination. A. H. Hendrickson. (California Sta. Bul. 352, pp. 245-266, figs. 5, Dec., 1922.)

Bovine infectious abortion and associated diseases of cattle and new-born calves. G. H. Hart, J. Traum, and F. M. Hayes. (California Sta. Bul. 353, pp. 271-397, figs. 12, Jan., 1923.)

Results of rice experiments in 1922. C. F. Dunshee. (California Sta. Bul. 354, pp. 399-415, figs. 14, Feb., 1923.)

The peach twig-borer (*Anarsia lineatella* Zeller). W. P. Duruz. (California Sta. Bul. 355, pp. 419-464, figs. 19, Mar., 1923.)

Recommendations concerning the common diseases and parasites of poultry in California. J. R. Beach and S. B. Freeborn. (California Sta. Circ. 251, pp. 44, figs. 34, Aug., 1922.)

Leguminous plants as organic fertilizers in California agriculture. P. B. Kennedy. (California Sta. Circ. 255, pp. 8, fig. 1, Dec., 1922.)

Sodium arsenite as a killing agent in grasshopper baits. C. L. Corkins. (Colorado Sta. Bul. 280, pp. 15, Jan., 1923.)

Methods of handling hay in Colorado. G. A. Cumings. (Colorado Sta. Bul. 281, pp. 39, figs. 44, Jan., 1923.)

Heat transmission of commercial wallboard. G. A. Cumings. (Colorado Sta. Bul. 282, pp. 8, figs. 5, Jan., 1923.)

The rose chafer as a cause of death of chickens. G. H. Lamson, Jr. (Connecticut Sta. Bul. 110, pp. 117-134, figs. 10, Oct., 1922.)

- Fruit jellies.--I. The role of acids. L. W. Tarr. (Delaware Sta. Bul. 134, pp. 38, figs. 10, Feb., 1923.)
- Preliminary report on controlling melanose and preparing Bordeaux-oil. O. F. Burger, E. F. DeBusk, and W. R. Briggs. (Florida Sta. Bul. 167, pp. 121-140, figs. 5, Jan., 1923.)
- Preliminary report.--Business analysis of 181 general crop, 11 dairy, and 10 fruit farms, Twin Falls County, Idaho, 1921. B. Hunter. (Idaho Sta. Bul. 132, pp. 19, Feb., 1923.)
- The clover aphid: Biology, economic relationships and control. R. H. Smith. (Idaho Sta. Res. Bul. 3, pp. 75, figs. 35, Jan., 1923.)
- Biennial report, 1921-22. E. J. Iddings. (Idaho Sta. Circ. 30, pp. 15, Jan., 1923.)
- Tobacco wildfire in 1922. P. J. Anderson and G. H. Chapman. (Massachusetts Sta. Bul. 213, pp. 27, fig. 1, Jan., 1923.)
- Combating apple scab.--Spraying and dusting experiments in 1922. W. S. Krout. (Massachusetts Sta. Bul. 214, pp. 29-41, Jan., 1923.)
- Control of bacillary white diarrhoea, 1921-22. G. E. Gage and O. S. Flint. (Massachusetts Sta. Control Ser. Bul. 22, pp. 8, Dec., 1922.)
- Meteorological observations at the Massachusetts Agricultural Experiment Station. J. E. Ostrander and G. E. Lindskog. (Massachusetts Sta. Met. Bul. 410, pp. 4, Feb., 1923.)
- The Quarterly Bulletin. (Michigan Sta. Quart. Bul., 5 (1923), No. 3, pp. 95-153, figs. 20, Feb., 1923.)
- Cotton experiments, 1922. J. F. O'Kelly and R. Cowart. (Mississippi Sta. Circ. 45, pp. 7, Dec., 1922.)
- Corn experiments, 1922. J. F. O'Kelly and R. Cowart. (Mississippi Sta. Circ. 47, pp. 7, Jan., 1923.)
- Testing fertilizers for Missouri farmers, 1922. L. D. Haigh. (Missouri Sta. Bul. 200, pp. 51, fig. 1, Feb., 1923.)
- The Practical control of infectious abortion in cattle. J. W. Connaway. (Missouri Sta. Bul. 201, pp. 11, Feb., 1923.)
- The durability of fence posts. J. C. Wooley. (Missouri Sta. Circ. 108, pp. 4, figs. 2, Dec., 1922.)
- Potato diseases in Nebraska. R. W. Goss. (Nebraska Sta. Bul. 186, pp. 32, figs. 12, Feb., 1923.)

- Progress of agricultural experiments, 1922.--A report of the director of the New Hampshire Agricultural Experiment Station for the year 1922, including a financial statement for the discal year ending June 30, 1922. (New Hampshire Sta. Bul. 208, pp. 31, Jan., 1923.)
- Preliminary smudging experiments. F. Garcia and A. B. Fite. (New Mexico Sta. Bul. 134, pp. 26, figs. 6, Dec., 1922.)
- An economic study of the production of canning crops in New York. L. J. Norton. (New York Cornell Sta. Bul. 412, pp. 82, figs. 6, Dec., 1922.)
- Factors influencing catalase activity in apple-leaf tissue. A. J. Heinicke. (New York Cornell Sta. Mem. 62, pp. 19, Jan., 1923.)
- The nature and reaction of water from hydathodes. J. K. Wilson. (New York Sta. Mem. 65, pp. 11, Feb., 1923.)
- The pears of New York. U. P. Hedrick et al. (New York State Sta. Rpt. 40, Pt. II, pp. XI + 636, pls. 82, 1921.)
- Periodicals available for reference. (New York State Sta. Circ. 59, pp. 18.)
- Proposed program of development. (New York State Sta. Circ. 60, pp. 7.)
- List of projects under investigation. (New York State Sta. Circ. 61, pp. 4.)
- Available bulletins . (New York State Sta. Circ. 62, pp. 4.)
- Spraying and dusting experiments with apples in 1922. P. J. Parrott, F. C. Stewart, and H. Glasgow. (New York State Sta. Circ. 63, pp. 8.)
- 1922 Experiments on control of borers and leaf curl of peaches. P. J. Parrott, F. C. Stewart, and H. Glasgow. (New York State Sta. Circ. 64, pp. 7.)
- Spraying and dusting experiments for pear psylla in 1922. F. Z. Hartzell. (New York State Sta. Circ. 65, pp. 8.)
- Farmers' market bulletin. (North Carolina Sta. Farmers' Market Bul. 10, No. 60, pp. 8, Mar., 1923.)
- Forty-first annual report for 1921-22. (Ohio Sta. Bul. 362, pp. LIX + 5, figs. 8, June, 1922.)
- New facts for Oklahoma farmers. (Oklahoma Sta. Rpt. 31 (1922), pp. 29.)
- Commercial fertilizers. R. H. Robinson. (Oregon Sta. Circ. 31, pp. 16, Nov., 1922.)

Strawberries. C. E. Schuster. (Oregon Sta. Circ. 32, pp. 16, figs. 2, Jan., 1923.)

Oregon experiment station trap-nest. A. G. Lunn and F. L. Knowlton. (Oregon Sta. Circ. 33, pp. 4; figs., 5, Jan., 1923.)

Forty years results with fertilizers.--General fertilizer experiments. F. D. Gardner, C. F. Noll, and R. D. Lewis. (Pennsylvania Sta. Bul. 175, pp. 23, figs. 10, Jan., 1923.)

The colon-typhoid intermediates as causative agents of disease in birds.--II. Atypical organisms. H. G. May and Helena A. M. Tibbetts. (Rhode Island Sta. Bul. 191, pp. 42, Jan., 1923.)

Preliminary study of the methods and means of handling fresh produce in Rhode Island. H. B. Hall. (Rhode Island Sta. Bul. 192, pp. 28, figs. 2, Jan., 1923.)

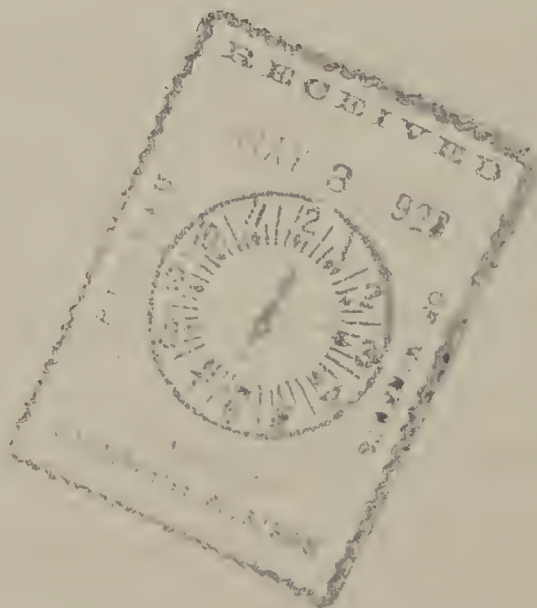
Inoculation in the growing of legumes. P. W. Allen. (Washington Sta. Pop. Bul. 122, pp. 16, figs. 6, Jan., 1923.)

Bimonthly bulletin of the western Washington Experiment Station, Puyallup, Wash. (Western Washington Sta. Bimo. Bul., 10, No. 6, pp. 114-136, fig. 1, Mar., 1923.)

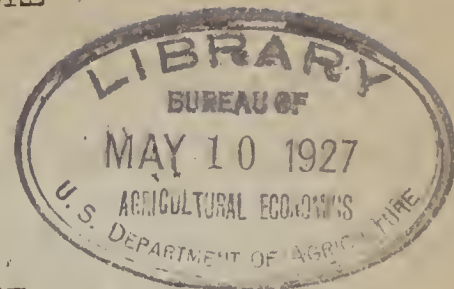
Marketing by cooperative sales companies. T. Macklin. (Wisconsin Sta. Bul. 346, pp. 32, figs. 10, Jan., 1923.)

Spring wheat production in eastern Wyoming. A. L. Nelson. (Wyoming Sta. State Farms Bul. 1, pp. 12, Dec., 1920.)

Winter wheat production in eastern Wyoming. A. L. Nelson. (Wyoming Sta. State Farms Bul. 2, pp. 15-22, Dec., 1920.)



UNITED STATES DEPARTMENT OF AGRICULTURE
STATES RELATIONS SERVICE
A. C. TRUE, DIRECTOR.



LIST OF STATION PUBLICATIONS
RECEIVED BY THE STATES RELATIONS SERVICE
DURING APRIL, 1923.

NOTE.--The station publications noted in this list ARE NOT DISTRIBUTED BY THE DEPARTMENT OF AGRICULTURE, but can usually be obtained, as far as the supply will permit, by applying to the stations issuing them. An address list of the stations will be furnished upon request.

Report of the Alaska agricultural experiment stations, 1921. (Alaska Stas. Rpt. 1921, pp. 58, pls. 12.)

Facts about College of Agriculture, University of Arkansas. (Arkansas Sta. Bul. 182, pp. 31, figs. 24, Dec. 1922.)

The strawberry tiger moth. W.J. Baerg. (Arkansas Sta. Bul. 183, pp. 14, pls. 5, figs. 4, Jan. 1923.)

A study of sidedraft and tractor hitches. A.H. Hoffman. (California Sta. Bul. 349, pp. 113-163, figs. 78, Oct. 1922.)

California state dairy cow competition, 1920-22. F.W. Woll. (California Sta. Bul. 351, pp. 185-244, figs. 15, Nov. 1922.)

A self-mixing dusting machine for applying dry insecticides and fungicides. R.E. Smith and J.P. Martin. (California Sta. Bul. 357, pp. 497-505, figs. 3, Apr. 1923.)

Black measles, water berries, and related vine troubles. F.T. Bioletti. (California Sta. Bul. 358, pp. 509-524, figs. 6, Apr. 1923.)

The control of wild morning glory. C.C. Barnum. (California Sta. Circ. 256, pp. 22, figs. 13, Jan. 1923.)

The small-seeded horse bean. P.B. Kennedy. (California Sta. Circ. 257, pp. 23, pl. 1, figs. 14, Feb. 1923.)

Thinning deciduous fruits, W.P. Tufts. (California Sta. Circ. 258, pp. 13, figs. 5, Mar. 1923.)

Outlines of course of instruction in agricultural nature study for the rural schools of California. O.J. Kern. (California Sta. 1923, pp. 106, figs. 60, Feb. 1923.)

Return of seepage water to the lower South Platte River in Colorado. R.L. Parshall. (Colorado Sta. Bul. 279, pp. 72, map 1, figs. 23, Dec. 1922.)

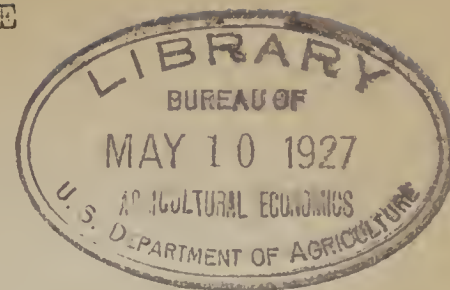
- Head lettuce in Colorado. R.A. McGinty. (Colorado Sta. Bul. 283, pp. 26, figs. 9, Mar. 1923.)
- Thirty-fifth annual report, 1922. (Colorado Sta. Rpt. 35, pp. 30.)
- Report on commercial fertilizers, 1922. E.H. Jenkins and E.M. Bailey. (Connecticut Sta. Bul. 241, pp. 55-144, Nov. 1922.)
- Report on commercial insecticides and fungicides. E.M. Bailey, R.E. Andrew, and W.E. Britton. (Connecticut Sta. Bul. 242, pp. 145-165, Nov. 1922.)
- Report of the director, 1922. E.J. Jenkins. (Connecticut Sta. Bul. 243, pp. 167-180, Nov. 1922.)
- Report of the Guam Agricultural Experiment Station, 1921. (Guam Sta. Rpt. 1921, pp. 43, pls. 6.)
- Cattle feeding.--Winter steer feeding. J.H. Skinner and F.G. King. (Indiana Sta. Bul. 265, pp. 23, Dec. 1922.)
- Stallion enrollment.--XI. Report of stallion enrollment work for the year 1922 with lists of stallions and jacks enrolled. (Indiana Sta. Circ. 108, pp. 56, fig. 1, Dec. 1922.)
- Indiana flour. (Indiana Sta. Circ. 109, pp. 15, figs. 9, Feb. 1923.)
- Report of the director for the year ending June 30, 1922. (Indiana Sta. Rpt. 35 (1922), pp. 68, figs. 35.)
- Self-feeders for swine. J.M. Evvard, J.B. Davidson, and W.A. Foster. (Iowa Sta. Bul. 208, pp. 32, figs. 26, Nov. 1922.)
- Fifty years of farmers' elevators in Iowa. E.G. Nourse. (Iowa Sta. Bul. 211, pp. 233-271, figs. 10, Mar. 1923.)
- The Iowa soil survey and field experiments. W.H. Stevenson and P.E. Brown. (Iowa Sta. Circ. 82, pp. 23, figs. 8, Mar. 1923.)
- Soybeans. H.D. Hughes and F.S. Wilkins. (Iowa Sta. Circ. 84, pp. 15, figs. 7, Mar. 1923.)
- Sterility in relation to animal breeding. W.S. Anderson. (Kentucky Sta. Bul. 244 (Res. Bul.), pp. 203-234, Dec. 1922.)
- The marketing of Kentucky strawberries. O.B. Jesness and D.B. Card. (Kentucky Sta. Bul. 246, pp. 30, figs. 4, Jan. 1923.)
- Self-fertility in red clover. E.N. Fergus. (Kentucky Sta. Circ. 29, pp. 19-36, Dec. 1922.)
- Discussions and demonstrations on breeding problems. (Kentucky Sta. Circ. 30, pp. 39-93, Dec. 1923.)

- Second preliminary report on parasites found in ruminants at the municipal abattoir, Baton Rouge, La. G. Dikmans. (Louisiana Sta. Tech. Bul. 186, pp. 12, Jan. 1923.)
- Hogging down crops.--Cost of producing crops and pork. A.F. Kidder and W.H. Dalrymple. (Louisiana Sta. Bul. 187, pp. 19, Feb. 1923.)
- Studies in milk secretion.--XVII. Relation between milk yields and butter-fat percentages of the 7-day and 365-day tests of Holstein-Friesian advanced registry cattle. M.S. Gowen and J.W. Gowen. (Maine Sta. Bul. 306, pp. 21-60, June, 1922.)
- Sterility relationships in Maine apple varieties. K. Sax. (Maine Sta. Bul. 307, pp. 61-76, fig. 1, Sept. 1922.)
- Commercial fertilizers, 1922. J.M. Bartlett. (Maine Sta. Off. Insp. 105, pp. 45-76, Oct. 1922.)
- Commercial agricultural seeds, 1922.--Insecticides and fungicides, 1922. (Maine Sta. Off. Insp. 106, pp. 77-99, Dec. 1922.)
- Meteorological observations at the Massachusetts Agricultural Experiment Station. J.E. Ostrander and G.E. Lindskog. (Massachusetts Sta. Met. Bul. 411, pp. 4, Mar. 1923.)
- Grape production in Michigan. N.L. Partridge. (Michigan Sta. Spec. Bul. 121, pp. 23, figs. 11, Feb. 1923.)
- Report from Holly Springs Branch Experiment Station for 1922. C.T. Ames. (Mississippi Sta. Bul. 211, pp. 16, figs. 3, Dec. 1922.)
- Cotton spacing. H.B. Brown. (Mississippi Sta. Bul. 212, pp. 16, Jan. 1923.)
- Report from Raymond Branch Experiment Station for 1920 to 1922 inclusive. C.B. Anders. (Mississippi Sta. Bul. 213, pp. 6, Jan. 1923.)
- Experiments with feeding steers using cottonseed meal and varying proportions of corn and cottonseed meal. E. Barnett and C.J. Goodell. (Mississippi Sta. Bul. 214, pp. 29, Jan. 1923.)
- Cotton experiments, 1922, Delta Branch Station. W.E. Ayres. (Mississippi Sta. Bul. 215, pp. 14, fig. 1, Jan. 1923.)
- Thirty-fifth annual report for the fiscal year ending June 30, 1922. (Mississippi Sta. Rpt. 35 (1922), pp. 59.)
- Spraying Irish potatoes. J.T. Rosa, Jr. (Missouri Sta. Bul. 198, pp. 8, figs. 2, Jan. 1923.)
- Cooperative live stock shipping associations in Missouri. R. Loomis. (Missouri Sta. Bul. 199, pp. 10, Jan. 1923.)

- Controlling San Jose Scale with lubricating oil emulsion. L. Haseman and K. C. Sullivan. (Missouri Sta. Circ. 109, pp. 4, figs. 2, Feb. 1923.)
- The Missouri colony brooder house. H.L. Kemster. (Missouri Sta. Circ. 110, pp. 2, figs. 3, Feb. 1923.)
- Grasshoppers, cutworms, and other insect pests of 1921-22. R.A. Cooley. (Montana Sta. Bul. 150, pp. 31, figs. 6, Dec. 1922.)
- The purpose and work of the Montana Grain Inspection Laboratory. W. C. Whitcomb. (Montana Sta. Circ. 108, pp. 11, Oct. 1922.)
- The fruit-tree leaf-roller in the Bitter Root Valley. W.S. Regan. (Montana Sta. Circ. 109, pp. 13, figs. 8, Dec. 1922.)
- The Nebraska farm family.--Some land tenure phases. J.O. Rankin. (Nebraska Sta. Bul. 185, pp. 31, figs. 9, Feb. 1923.)
- Relation of environment and other factors to potato wilt caused by Fusarium Oxysporum. R.W. Goss. (Nebraska Sta. Res. Bul. 23, pp. 84, figs. 5, May 1923.)
- Analyses of materials sold as insecticides and fungicides during 1922. C.S. Cathcart and R.L. Willis. (New Jersey Stas. Bul. 372, pp. 24, Oct. 1922.)
- Dry-mix sulfur lime.--A substitute for self-boiled lime sulfur and summer-strength concentrated lime-sulfur. A.J. Farley. (New Jersey Sta. Bul. 379, pp. 16, figs. 3, Feb. 1923.)
- Potato diseases in New Jersey and their control. W.H. Martin. (New Jersey Stas. Circ. 146, pp. 32, figs. 25, Mar. 1923.)
- Spray calendar for apples and quinces. (New Jersey Stas. Circ. 147, pp. 4, fig. 1, Feb. 1923.)
- Spray calendar for peaches. (New Jersey Stas. Circ. 148, pp. 4, figs. 3, Feb. 1923.)
- Spray calendar for pears. (New Jersey Stas. Circ. 149, pp. 4, figs. 3, Feb. 1923.)
- Spray calendars for plums and cherries. (New Jersey Stas. Circ. 150, pp. 4, fig. 1, Feb. 1923.)
- Spray calendar for grapes. (New Jersey Stas. Circ. 151, pp. 3, fig. 1, Feb. 1923.)
- New York City egg prices and what they mean to the poultry raisers of New Jersey. H. Keller, Jr. (New Jersey Stas. Hints to Poultrymen Vol. 11, No. 6, pp. 4, Mar. 1923.)
- Summary of codling moth investigations, with spraying schedules. A.B. Fite. (New Mexico Sta. Bul. 135, pp. 24, figs. 7, Feb. 1923.)

- Some relations of organic matter in soils. F.A. Carlson. (New York Cornell Sta. Mem. 61, pp. 27, figs. 2, Sept. 1922.)
- Farmers' Market bulletin. (North Carolina Sta. Farmers' Market Bul. 10, No. 61, pp. 8, Apr. 1923.)
- Monthly bulletin of the Ohio Agricultural Experiment Station. (Ohio Sta. Mo. Bul. 8, Nos. 1,2, pp. 32, figs. 9, Jan.-Feb. 1923.)
- Field peas. G.R. Hyslop. (Oregon Sta. Circ. 34, pp. 2, Mar. 1923.)
- The cherry-fruit fly. A.L. Lovett. (Oregon Sta. Circ. 35, pp. 4, figs. 3, Apr. 1923.)
- The hop red spider. A.L. Lovett. (Oregon Sta. Circ. 36, pp. 4, fig. 1, Apr. 1923.)
- The onion maggot. A.L. Lovett. (Oregon Sta. Circ. 37, pp. 4, Apr. 1923.)
- The peach and prune twig-miner. A.L. Lovett. (Oregon Sta. Circ. 38, pp. 4, figs. 3, Apr. 1923.)
- Truck crop investigations.--Spraying and dusting vegetable crops in 1922. F.W. Geise, H.H. Zimmerley, and H. Spencer. (Virginia Truck Sta. Bul. 41, pp. 237-256, figs. 9, Oct. 1922.)
- Experiments with dark tobacco and other crops. B.G. Anderson. (Virginia Sta. Bul. 231, pp. 19, figs. 5, Feb. 1923.)
- The influence of precipitation on soil composition and on soil organic matter maintenance. F.J. Sievers and H.F. Holtz. (Washington Sta. Bul. 176, pp. 32, fig. 1, Feb. 1923.)
- Make alfalfa a sure crop. R.A. Moore and L.F. Graber. (Wisconsin Sta. Bul. 349, pp. 24, pls. 2, figs. 23, Dec. 1922.)
- Minerals for live stock. E.B. Hart, H. Steenbock, and F.B. Morrison. (Wisconsin Sta. Bul. 350, pp. 21, figs. 16, Jan. 1923.)
- Science serves Wisconsin farms. H.L. Russell and F.B. Morrison. (Wisconsin Sta. Bul. 352, pp. 122, figs. 54, Feb. 1923.)
- Farm Homes. (Wisconsin Sta. Bul. 353, pp. 24, figs. 15, Jan. 1923.)
- Effect of defoliation upon blossom bud formation. R.H. Roberts. (Wisconsin Sta. Res. Bul. 56, pp. 15, figs. 5, Jan. 1923.)
- Thirty-second annual report, 1921-22. (Wyoming Sta. Rpt. 32 (1921-22), pp. 143-170.)

UNITED STATES DEPARTMENT OF AGRICULTURE
STATES RELATIONS SERVICE
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LIST OF STATION PUBLICATIONS
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DURING MAY, 1923.

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Observations on some rice weeds in California. P.B. Kennedy. (California Sta. Bul. 356, pp. 465-494, figs. 26, Apr. 1923.)

Pear by-products. J.H. Irish. (California Sta. Circ. 259, pp. 4, Apr. 1923.)

The diseases of pepper. B.B. Higgins. (Georgia Sta. Bul. 141, pp. 48-75, figs. 11, Feb. 1923.)

Thirty-fifth annual report. (Georgia Sta. Rpt. 35, (1922) pp. 30, figs. 6.)

Flag smut of wheat, with special reference to varietal resistance. W.H. Tisdale, G.H. Dungan, and C.E. Leighty. (Illinois Sta. Bul. 242, pp. 509-538, figs. 3, Apr. 1923.)

Corn varieties for chinch-bug infested areas. W.P. Flint and J.C. Hackleman. (Illinois Sta. Bul. 243, pp. 539-550, figs. 6, Apr. 1923.)

Directions for spraying fruits in Illinois. (Illinois Sta. Circ. 266, pp. 16, figs. 2, Apr. 1923.)

Fight the chinch bug with crops. W.L. Burlison and W.P. Flint. (Illinois Sta. Circ. 268, pp. 16, figs. 7, May 1923.)

Chinch bug barriers. W.P. Flint. (Illinois Sta. Circ. 270, pp. 8, figs. 4, May 1923.)

Thirty-fifth annual report, 1921-22 (Illinois Sta. Rpt. 35 (1922), pp. 24.)

Studies on ropiness in cultures of Streptococcus lactis. B.W. Hammer. (Iowa Sta. Res. Bul. 74, pp. 259-270, Jan. 1923.)

The color of soils in relation to organic matter content. P.E. Brown. (Iowa Sta. Res. Bul. 75, pp. 275-300, figs. 14, Mar. 1923.)

Forage crops save protein supplements. J.M. Evvard. (Iowa Sta. Circ. 83, pp. 8, figs. 2, Mar. 1923.)

Report of the Creamery License Section, 1918-22. P.E. Bacon. (Kentucky Sta. Reg. Ser. 3, pp. 15, fig. 1, Dec. 1922.)

Thirty-fifth annual report. (Kentucky Sta. Rpt. 35 (1922), pp. 61.)

Meteorological observations at the Massachusetts Agricultural Experiment Station. J.E. Ostrander and G.E. Lindskog. (Massachusetts Sta. Met. Bul. 412, pp. 4, Apr. 1923.)

Lime for St. Joseph County soils. M.M. McCool and L.C. Wheeting. (Michigan Sta. Circ. Bul. 55, pp. 4, fig. 1, Apr. 1923.)

Lime for Cass County soils. M.M. McCool and J.O. Veatch. (Michigan Sta. Circ. Bul. 56, pp. 4, fig. 1, Apr. 1923.)

Lime for Calhoun County soils. M.M. McCool and J.O. Veatch. (Michigan Sta. Circ. Bul. 57, pp. 4, fig. 1, Apr. 1923.)

Lime for Berrien County soils. M.M. McCool and J.O. Veatch. (Michigan Sta. Circ. Bul. 58, pp. 4, fig. 1, Apr. 1923.)

Lime for Ottawa County soils. M.M. McCool and J.O. Veatch. (Michigan Sta. Circ. Bul. 59, pp. 4, fig. 1, Apr. 1923.)

Lime for Kalamazoo County soils. M.M. McCool, J.O. Veatch, and J. Tyson. (Michigan Sta. Circ. Bul. 60, pp. 4, fig. 1, Apr. 1923.)

Organization and management of local live stock shipping associations in Minnesota, E.W. Gaumnitz and J.D. Black. (Minnesota Sta. Bul. 201, pp. 77, figs. 12, Dec. 1922.)

Farmers' cooperation in Minnesota, 1917-22. H.B. Price. (Minnesota Sta. Bul. 202, pp. 78, figs. 9, Jan. 1923.)

The Mississippi agricultural experiment stations.-- An historical sketch. J.W. Bailey. (Mississippi Sta. Bul. 216, pp. 56, Mar. 1923.)

Cotton experiments, 1922. E. B. Ferris. (Mississippi Sta. Circ. 46, pp. 6, Jan. 1923.)

Purchasing power of Nebraska grains. H.C. Filley and E.A. Frerichs. (Nebraska Sta. Bul. 187, pp. 35, figs. 4, Mar. 1923.)

Productive seed corn. T. A. Kiesselbach. (Nebraska Sta. Bul. 188, pp. 35, figs. 7, Apr. 1923.)

The pepper maggot, a new pest of peppers and eggplants, Spilographa electa Say. A. Peterson. (New Jersey Stas. Bul. 373, pp. 23, figs. 3, Jan. 1923.)

Analyses of commercial fertilizers and ground bone; analyses of agricultural lime, 1922. (New Jersey Stas. Bul. 376, pp. 54, fig. 1, Dec. 1922.)
C.S. Cathcart.

The blackberry psyllid, Trioza tripunctata Fitch. A. Peterson. (New Jersey Stas. Bul. 378, pp. 32, figs. 35, Feb. 1923.)

Fertilizer registrations for 1923. C. S. Cathcart. (New Jersey Stas. Bul. 382, pp. 22, Jan. 1923.)

Plans and specifications for New Jersey poultry buildings. W. C. Thompson, W.P. Thorp, and G.H. Pound. (New Jersey Stas. Circ. 152, pp. 16, figs. 13, Apr. 1923.)

Brooding the chicks. W.P. Thorp, Jr. (New Jersey Stas. Hints to Poultrymen, 11, No. 7, pp. 4, fig. 1, Apr. 1923.)

Poultry meat production. P.A. Hayden. (New Jersey Stas. Hints to Poultrymen, 11, No. 8, pp. 4, May 1923.)

The utilization of feed by range steers of different ages.--III. Alfalfa hay and cottonseed meal.--IV. Alfalfa hay, milo maize meal, and cottonseed meal. J.D. Hungerford and L.Foster. (New Mexico Sta. Bul. 128, pp. 92, figs. 15, Sept. 1921.)

Thirty-third annual report. (New Mexico Sta. Rpt. 33 (1922), pp. 52, figs. 4.)

The biology of the Chrysopidae. R.C. Smith. (New York Cornell Sta. Memoir 58, pp. 1287-1372, pls. 4, figs, 20, June 1922.)

Effect of climatic conditions on the blooming and ripening dates of fruit trees. H.A. Phillips. (New York Cornell Sta. Memoir 59, pp. 1379-1416, figs. 9, June 1922.)

The relation of soil moisture and nitrates to the effects of sod on apple trees. T.L. Lyon, A.J. Heinicke, and B.D. Wilson. (New York Cornell Sta. Memoir 63, pp. 28, figs. 3, Jan. 1923.)

Diseases of grain and forage crops in North Dakota. W. Weniger. (North Dakota Sta. Bul. 166, pp. 92, figs. 32, May 1923.)

Monthly bulletin of the Ohio Agricultural Experiment Station. (Ohio Sta. Mo. Bul. 8, Nos. 3-4, pp. 34-64, figs. 6, March-April 1923.)

Finishing pigs for market. A.W. Oliver and E.L. Potter. (Oregon Sta. Bul. 196, pp. 20, Jan. 1923.)

Tree borers and their control. A.L. Lovett. (Oregon Sta. Circ. 39, pp. 7 figs. 4, Apr. 1923.)

Recirculation driers. E.H. Wiegand. (Oregon Sta. Circ. 40, pp. 11, figs. 6, Apr. 1923.)

Inspection of feeds. P.S. Burgess and J.B. Smith. (Rhode Island Sta. Feed Circ. (1923), pp. 12, Apr. 1923.)

Annual report of the director. (South Dakota Sta. Rpt. 1922, pp. 32.)

The fixation of phosphoric acid by the soil. G.S. Fraps. (Texas Sta. Bul. 304, pp. 22, Dec. 1922.)

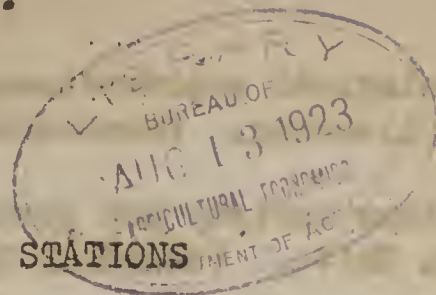
Bimonthly bulletin of the Western Washington Experiment Station, Puyallup, Wash. (Western Washington Sta. Bimo. Bul. XI, No. 1, pp. 24, figs. 9, May 1923.)

An outlet drain for every farm. E.R. Jones and O.R. Zeaman. (Wisconsin Sta. Bul. 351, pp. 55, figs. 22, Dec. 1922.)

The modified leader tree. R.H. Roberts. (Wisconsin Sta. Bul. 354, pp. 32, Feb. 1923.)

Rocky Mountain head lettuce. A.F. Vass. (Wyoming Sta. Circ. 19, pp. 11, figs. 3, Feb. 1922.)

UNITED STATES DEPARTMENT OF AGRICULTURE
OFFICE OF EXPERIMENT STATIONS.
E.W. ALLEN, CHIEF.



LIST OF STATION PUBLICATIONS
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DURING JUNE, 1923.

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Distribution of Arizona wild cotton, (Thurberia thespesioides). H. C. Hanson. (Arizona Sta. Tech. Bul. 3, pp. 48-59, figs. 3, Apr. 1923.)

Vitamins, health, and the daily diet. J.W. Read and S. Palmer. (Arkansas Sta. Bul. 184, pp. 64, figs. 11, May, 1923.)

Fruit beverage investigations. W.V. Cruess and J.H. Irish. (California Sta. Bul. 359, pp. 525-568, figs. 15, Apr. 1923.)

The removal of sodium carbonate from soils. W.P. Kelley and E.E. Thomas. (California Sta. Tech. Paper 1, pp. 24, Jan. 1923.)

The citrus nematode, (Tylenchulus semipenetrans). E.E. Thomas. (California Sta. Tech. Paper 2, pp. 34, pls. 8, May 1923.)

The formation of sodium carbonate in soils. A.B. Cummins and W.P. Kelley. (California Sta. Tech. Paper 3, pp. 35, Mar. 1923.)

Effect of sodium chlorid and calcium chlorid upon growth and composition of young orange trees. H. S. Reed and A.R.C. Haas. (California Sta. Tech. Paper 4, pp. 32, pls. 6, Apr. 1923.)

Spray calendar. W.R. Britton and G. P. Clinton. (Connecticut State Sta. Bul. 244, pp. 183-226, figs. 94, Jan. 1923.)

Results of dusting versus spraying in Connecticut apple and peach orchards in 1922. M.P. Zappe and E.M. Stoddard. (Connecticut State Sta. Bul. 245, pp. 229-243, Feb. 1923.)

The apple and thorn skeletonizer. B.A. Porter and P. Garman. (Connecticut State Sta. Bul. 246, pp. 245-264, pls. 4, figs. 3, Feb. 1923.)

The common animal parasites of swine. R. Graham and I. B. Boughton. (Illinois Sta. Circ. 269, pp. 18, figs. 11, May 1923.)

Bulletin summary. (Massachusetts Sta. Circ. 70, pp. 3, Apr. 1922.)

- Meteorological observations at the Massachusetts Station. J.E. Ostrander and G.E. Lindskog. (Massachusetts Sta. Met. Bul. 413, pp. 4, May 1923.)
- Fertilizer variety and seed selection experiments on Irish and sweet potatoes. T. H. White. (Maryland Sta. Bul. 251, pp. 23, Jan. 1923.)
- Experiments on the control of the woolly aphis. E.N. Cory. (Maryland Sta. Bul. 252, pp. 25-36, Feb. 1923.)
- Sweet clover for summer pasture and green manure. J.E. Metzger. (Maryland Sta. Bul. 253, pp. 37-46, figs. 2, Mar. 1923.)
- Thirty-fifth annual report, 1921-22. (Maryland Sta. Rpt., 35 (1921-22), pp. XVI+249, figs. 78.)
- The quarterly bulletin. (Michigan Sta. Quart. Bul. 5, No. 4, pp. 157-200, figs. 9, May 1923.)
- Second growth on cut-over lands in St. Louis County. T.S. Hansen. (Minnesota Sta. Bul. 203, pp. 50, figs. 40, May 1923.)
- Wheat and flax as combination crops. A.C. Arny. (Minnesota Sta. Bul. 204, pp. 21, figs. 4, Mar. 1923.)
- The gas tractor in Montana. H.E. Selby. (Montana Sta. Bul. 151, pp. 24, figs. 3, Dec. 1922.)
- Experiments with alfalfa and grasses at the Judith Basin Substation. N. F. Woodward. (Montana Sta. Bul. 152, pp. 24, figs. 7, Jan. 1923.)
- Annual forage crops on dry land at the Judith Basin Substation. N.F. Woodward. (Montana Sta. Bul. 153, pp. 15, figs. 4, Jan. 1923.)
- Blackleg in cattle. H. Welch. (Montana Sta. Circ. 110, pp. 8, figs. 5, Jan. 1923.)
- Methods of preserving eggs. C.B. Swingle and G.E. Pool. (Montana Sta. Circ. 111, pp. 8, Jan. 1923.)
- Improved methods of controlling grasshoppers. R.A. Cooley, J.R. Parker, and A.L. Strand. (Montana Sta. Circ. 112, pp. 20, fig. 1, Jan. 1923.)
- Flax in Montana, 1923. (Montana Sta. Circ. 113, pp. 8, figs. 10, May 1923.)
- Some new hybrid strawberries. R.F. Howard and C.C. Wiggans. (Nebraska Sta. Bul. 189, pp. 15, figs. 2, Apr. 1923.)
- Crop rotation under irrigation. J.A. Holden. (Nebraska Sta. Bul. 190, pp. 11, Apr. 1923.)

- Experiments on the field control of snapdragon rust together with a description of a method for the control of the disease in greenhouses. O. Butler. (New Hampshire Sta. Tech. Bul. 22, pp. 14, figs. 2, May 1923.)
- The pear in New York. H.B. Tukey. (New York State Sta. Bul. 495, pp. 19, fig. 1, Dec. 1922.)
- Twenty-two years of tuberculin testing in the same herd. A.C. Dahlberg. (New York State Sta. Bul. 496, pp. 3, Jan. 1923.)
- New or noteworthy fruits, VI. U.P. Hedrick. (New York State Sta. Bul. 497, pp. 19, pls. 8, Jan. 1923.)
- Stocks for plums. U.P. Hedrick. (New York State Sta. Bul. 498, pp. 19, pls. 6, Jan. 1923.)
- Plum stocks. U.P. Hedrick, summarized by J.D. Luckett. (New York State Sta. Bul. 498, pp. 4, pl. 1, Mar. 1923.)
- Composition and prices of commercial fertilizers in New York in 1922. L.L. Van Slyke. (New York State Sta. Bul. 499, pp. 12, Mar. 1923.)
- Growth and yield of apple trees pruned in various ways. G.H. Howe. (New York State Sta. Bul. 500, pp. 22, pls. 6, Mar. 1923.)
- Factors which affect the volatility of nicotine from insecticide dusts. R.W. Thatcher and L.R. Streeter. (New York State Sta. Bul. 501, pp. 34, Mar. 1923.)
- The aphiscidal properties of tobacco dust. G.F. MacLeod and S.W. Harman. (New York State Sta. Bul. 502, pp. 18, pls. 3, Apr. 1923.)
- Final report on the cooperative experiments in orchard fertilization. R.C. Collison and J.D. Harlan. (New York State Sta. Bul. 503, pp. 30, Apr. 1923.)
- Studies with corn pollen.--I, Analysis and composition of corn pollen.--II, Concerning certain lipoids, a hydrocarbon, and phytosterol occurring in the pollen of white flint corn. R.J. Anderson and W.L. Kulp. (New York State Sta. Tech. Bul. 92, pp. 37, Feb. 1923.)
- Running-out of raspberries. W.H. Rankin. (New York State Sta. Circ. 67, pp. 12, Apr. 1923.)
- Results of some experiments in pruning fruit trees. W. H. Chandler. (New York Cornell Sta. Bul. 415, pp. 75, figs. 15, Jan. 1923.)
- The maple case-bearer. G.W. Herrick. (New York Cornell Sta. Bul. 417, pp. 15, figs. 13, Apr. 1923.)

The clarification of milk for cheese making. W.W. Fisk and W.V. Price.
(New York Cornell Sta. Bul. 418, pp. 14, figs. 6, Apr. 1923.)

Farmers' market bulletin. (North Carolina Sta. Farmers' Market Bul. 10, No. 62,
pp. 8, May 1923.)

Wheat: Continuous with and without manure. M.A. Beeson. (Oklahoma Sta. Bul.
140, pp. 15, figs. 4, Apr. 1921.)

Cotton variety tests, with suggestions for growing cotton under boll weevil
conditions. G. Briggs. (Oklahoma Sta. Bul. 141, pp. 15, Jan. 1923.)

Wintering breeding ewes. A.E. Darlow. (Oklahoma Sta. Bul. 142, pp. 8, Mar. 1922.)

The effect of lime and organic matter on the so-called hardpan subsoils. M.A.
Beeson and H.F. Murphy. (Oklahoma Sta. Bul. 143, pp. 7, Mar. 1922.)

Effect of protein and mineral on the development of swine. C.P. Thompson.
(Oklahoma Sta. Bul. 144, pp. 27, figs. 9, May, 1922.)

Oats. Rotation vs. continuous culture. H.F. Murphy. (Oklahoma Sta. Bul. 145,
pp. 8, figs. 2, Mar. 1922.)

Roup in poultry. J. E. Guberlet. (Oklahoma Sta. Circ. 51, pp. 3.)

Common smuts and their treatment. A. Daane. (Oklahoma Sta. Circ. 52, pp. 3.)

Suggestions relative to the boll weevil. C.E. Sanborn. (Oklahoma Sta. Circ.
53, pp. 16, figs. 11.)

Better seed potatoes for Oklahoma. W. A. Radspinner. (Oklahoma Sta. Circ. 54,
pp. 7, Jan. 1923.)

Official testing of dairy cattle in Oregon. H.N. Colman. (Oregon Sta. Circ.
41, pp. 36, May 1923.)

Insect pests and diseases of currants and gooseberries. A.L. Lovett and H.P.
Barss. (Oregon Sta. Circ. 42, pp. 12, figs. 6, June 1923.)

Grape growing in Oregon. C.E. Schuster. (Oregon Sta. Circ. 43, pp. 16, figs.
5, June 1923.)

Crop rotation and soil fertility. W.L. Powers and C.V. Ruzek. (Oregon Sta.
Circ. 44, pp. 12, fig. 1, June 1923.)

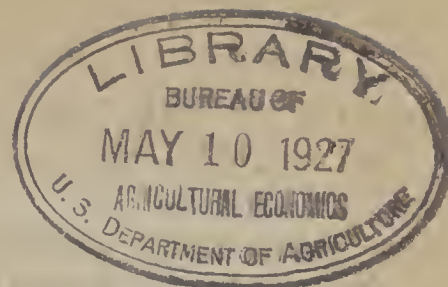
Hungarian vetch in Oregon. H.A. Schoth. (Oregon Sta. Circ. 46, pp. 4,
June 1923.)

Drainage and improvement of white land and similar wet land. W.L. Powers.
(Oregon Sta. Circ. 47, pp. 8, figs. 2, June 1923.)

- Tomato leaf spot and experiments with its control. J.H. Muncie. (Pennsylvania Sta. Bul. 177, pp. 23, figs. 3, Dec. 1922.)
- Silage feeding investigations for milk production. S.I. Bechdel (Pennsylvania Sta. Bul. 178, pp. 23, Feb. 1923.)
- Thirty-fifth annual report of the director. B.L. Hartwell. (Rhode Island Sta. Bul. 193, pp. 16, Feb. 1923.)
- The chinch bug. H.C. Severin. (South Dakota Sta. Bul. 202, pp. 561-576, figs. 2, Apr. 1923.)
- Insect pests of cotton in St. Croix and means of combating them. C.E. Wilson. (Virgin Islands Sta. Bul. 3, pp. 20, figs. 21, May 1923.)
- Truck crop investigations. Experiments with inoculated sulphur. F.W. Geise. (Virginia Sta. Bul. 42, pp. 259-263, Jan. 1923.)
- Tolerance of San José scale to sprays. A.L. Melander. (Washington Sta. Bul. 174, pp. 52, figs. 2, Feb. 1923.)
- Rocky Mountain head lettuce. A.F. Vass. (Wyoming Sta. Circ. 19, pp. 11, figs. 3, Feb. 1923.)



UNITED STATES DEPARTMENT OF AGRICULTURE
OFFICE OF EXPERIMENT STATIONS,
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LIST OF STATION PUBLICATIONS
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NOTE.--The station publications noted in this list ARE NOT DISTRIBUTED BY THE DEPARTMENT OF AGRICULTURE, but can usually be obtained, as far as the supply will permit, by applying to the stations issuing them. An address list of the stations will be furnished upon request.

- Establishing a commercial vineyard in Arizona. F.J. Crider. (Arizona Sta. Bul. 96, pp. 46, figs. 30, June 1923.)
- The efficiency of legume inoculation for Arizona soils. R.S. Hawkins. (Arizona Sta. Tech. Bul. 4, pp. 61-85, figs. 8, May 1923.)
- I. The strawberry weevil.--II, A false wireworm on strawberry. W.J. Baerg. (Arkansas Sta. Bul. 185, pp. 33, pls. 3, figs. 3, May 1923.)
- Tractors in Arkansas. D.G. Carter. (Arkansas Sta. Bul. 186, pp. 18, figs. 7, June 1923.)
- Gum diseases of citrus trees in California. H.S. Fawcett. (California Sta. Bul. 360, pp. 369-423, figs. 15, Apr. 1923.)
- Preliminary yield tables for second growth redwood. D. Bruce. (California Sta. Bul. 361, pp. 425-467, figs. 5, May 1923.)
- Dust and tractor engine. A.H. Hoffman. (California Sta. Bul. 362, pp. 469-486, figs. 8, May 1923.)
- The pruning of citrus trees in California. R.W. Hodgson. (California Sta. Bul. 363, pp. 487-532, figs. 20, May 1923.)
- Citrus blast and black pit. H.S. Fawcett, W.T. Horne, and A.F. Camp. (California Sta. Tech. paper 5, pp. 36, pls. 6, May 1923.)
- A study of deciduous fruit tree root stocks with special reference to their identification. M.J. Heppner. (California Sta. Tech. Paper 6, pp. 36, pls. 6, June 1923.)
- Report of road materials project. O.V. Adams. (Colorado Sta. Bul. 284, pp. 46, Apr. 1923.)
- Control of the whorled milkweed in Colorado. W.L. May. (Colorado Sta. Bul. 285, pp. 24, figs. 8, Apr. 1923.)
- A peculiar soil condition in the San Luis Valley. W.P. Headden. (Colorado Sta. Bul. 286, pp. 15, figs. 3, May 1923.)

- Control of ant invasions. W.E. Britton. (Connecticut State Sta. Bul. of Immed. Inform. 17, pp. 6, July 1922.)
- The gipsy moth quarantine. D.M. Rogers and W.E. Britton. (Connecticut State Sta. Bul. of Immed. Inform. 18, pp. 4, fig. 1, Aug. 1922.)
- Experiments in close inbreeding in fowls. L.C. Dunn. (Connecticut Storrs Sta. Bul. 111, pp. 137-172, Feb. 1923.)
- Infectious abortion in cattle. Calving and blood reaction records of thirteen herds. G.C. White, L.M. Chapman, and L.F. Rettger. (Connecticut Storrs Sta. Bul. 112, pp. 175-240, Feb. 1923.)
- A method for distinguishing the sex of young chicks. L.C. Dunn. (Connecticut Storrs Sta. Bul. 113, pp. 243-280, figs. 8, Mar. 1923.)
- Application of the principles of jelly making to Hawaiian fruits. J.C. Ripperton. (Hawaii Sta. Bul. 47, pp. 24, pl. 1, June 1923.)
- Swine raising in Hawaii. F.G. Krauss. (Hawaii Sta. Bul. 48, pp. 43, figs. 26, May 1923.)
- The acid lime fruit in Hawaii. W.T. Pope. (Hawaii Sta. Bul. 49, pp. 20, pls. 6, July 1923.)
- Work and progress of the agricultural experiment station for the year ended December 31, 1922. (Idaho Sta. Bul. 131, pp. 71, Jan. 1923.)
- Flag smut of wheat with special reference to varietal resistance. W.H. Tisdale, G.H. Dungan, and C.E. Leighty. (Illinois Sta. Abs. Bul. 242, pp. 4, fig. 1, May 1923.)
- The feed cost of milk and fat production as related to yields. H.A. Ross, H.F. Hall, and C.S. Rhode. (Illinois Sta. Bul. 244, pp. 551-573, figs. 3, May 1923.)
- Baking club manual. B.E. Scholes and H.M. Phillips. (Illinois Sta. Circ. 267, pp. 56, figs. 11, May 1923.)
- Greenhouse soil sterilization. H.D. Brown, I.L. Baldwin, and S.D. Conner. (Indiana Sta. Bul. 266, pp. 27, figs. 11, Dec. 1922.)
- Commercial feeding stuffs. E.G. Proulx et. al. (Indiana Sta. Bul. 268, pp. 23, figs. 2, Apr. 1923.)
- Two common weeds that cause death. A.A. Hansen. (Indiana Sta. Circ. 110, pp. 8, figs. 4, Feb. 1923.)
- Corn substitutes for fattening lambs. J.M. Evvard, R. Dunn, and C.C. Culbertson. (Iowa Sta. Bul. 210, pp. 205-229, figs. 11, Mar. 1923.)

- A comparison of roughages for milk production. A.C. McCandlish and E. Weaver. (Iowa Sta. Bul. 212, pp. 274-286, Mar. 1923.)
- The Iowa system of soil management. W.H. Stevenson and P.E. Brown. (Iowa Sta. Bul. 213, pp. 289-318, figs. 13, May 1923.)
- Supplemental specialty feeds for making 225 pound pigs on pasture. J.M. Evvard and C.C. Culbertson. (Iowa Sta. Circ. 85, pp. 8, May 1923.)
- Blackleg vaccines: Their production and use. J.P. Scott. (Kansas Sta. Tech. Bul. 10, pp. 24, June 1923.)
- The blueberry maggot in Washington County. Edith M. Patch and W. C. Woods. (Maine Sta. Bul. 308, pp. 77-92, pl. 1, Nov. 1922.)
- Meteorological observations. J.E. Ostrander and H.H. Shepard. (Massachusetts Sta. Met. Bul. 414, pp. 4, June 1923.)
- Studies in the nutrition of the strawberry. V.R. Gardner. (Missouri Sta. Res. Bul. 57, pp. 31, Mar. 1923.)
- Feeding for egg production. H.L. Kempster. (Missouri Sta. Circ. 111, pp. 12, figs. 4, Apr. 1923.)
- Controlling peach tree borers with paradichlorobenzene. O.C. McBride. (Missouri Sta. Circ. 112, pp. 4, figs. 2, June 1923.)
- Nebraska farm homes. J.O. Rankin. (Nebraska Sta. Bul. 191, pp. 48, figs. 20, May 1923.)
- Dry farming investigations at the Scottsbluff Substation. L.L. Zook. (Nebraska Sta. Bul. 192, pp. 23, fig. 1, July 1923.)
- Sixteen years' grain production at the North Platte Substation. L.L. Zook and W.W. Burr. (Nebraska Sta. Bul. 193, pp. 52, figs. 6, July 1923.)
- Lamb feeding experiments in western Nebraska. J.A. Holden. (Nebraska Sta. Bul. 194, pp. 35, figs. 1, Aug. 1923.)
- The plains false wireworm and its control. M.H. Swenk. (Nebraska Sta. Circ. 20 pp. 11, figs. 3, July 1923.)
- Thirty-sixth annual report. (Nebraska Sta. Rpt. 36 (1922), pp. 96, figs. 10.)
- The spring rabbit brush. A range plant poisonous to sheep. C.E. Fleming, M.R. Miller and L.R. Vawter. (Nevada Sta. Bul. 104, pp. 29, figs. 12, Sept. 1922.)
- The low larkspur. A plant of the spring range, poisonous to cattle. C.E. Fleming, M.R. Miller, and L.R. Vawter. (Nevada Sta. Bul. 105, pp. 22, pl. 1, figs. 8, Apr. 1923.)

Annual report of the Board of Control for the fiscal year ending June 20, 1922.
(Nevada Sta. Rpt. 1922, pp. 20, figs. 2.)

Results of seed and legume inoculant inspection for 1922. J.G. Fiske. (New Jersey Stas. Bul. 377, pp. 73, Jan. 1923.)

Spinach studies in Passaic County, and cultural notes. L.G. Schermerhorn.
(New Jersey Stas. Bul. 385, pp. 11, figs. 6, June 1923.)

Dahlias in the garden. C.H. Connors. (New Jersey Stas. Circ. 154, pp. 24, figs. 12, June 1923.)

The value of various culling factors. G.W. Hervey. (New Jersey Stas. Hints to Poultrymen 11, No. 9, pp. 4, June 1923.)

Methods of gram staining. G.J. Hucker and H.J. Conn. (New York State Sta. Tech. Bul. 93, pp. 37, Mar. 1923.)

Fertilizing apple orchards. History of station experiment. U. P. Hedrick
(New York State Sta. Circ. 66, pp. 8, fig. 1, Mar. 1923.)

The apple tree crotch. L. H. MacDaniels. (New York Cornell Sta. Bul. 419, pp. 22, figs. 16, May 1923.)

Relation of the composition of rations on some New York dairy farms to the economics of milk production. E.G. Misner. (New York Cornell Sta. Memoir 64, pp. 46, figs. 6, Feb. 1923.)

Simplified apparatus and technique for the electrometric determination of hydrogen ion concentration in milk and other biological liquids. F.E. Rice and A.J. Rider. (New York Cornell Sta. Memoir 16, pp. 66, fig. 1, Apr. 1923.)

Forty-fifth annual report. (North Carolina Sta. Rpt. 1922, pp. 88.)

County experiment farms in Ohio.--I. The Miami County Experiment Farm. (Ohio Sta. Bul. 361, pt. I, pp. 315-343, fig. 1, June 1922.)

County experiment farms in Ohio.--III. The Clermont County Experiment Farm. (Ohio Sta. Bul. 361, pt. III, pp. 377-412, figs. 3, June 1922.)

County experiment farms in Ohio.--VI. The Trumbull County Experiment Farm. (Ohio Sta. Bul. 361, pt. VI, pp. 475-498, June 1923.)

The monthly bulletin. (Ohio Sta. Mo. Bul. 8, Nos. 5-6, pp. 65-96, figs. 6 May-June 1923.)

Insect pests and diseases of bramble fruits. A.L. Lovett and H.P. Barss.
(Oregon Sta. Cir. 45, pp. 16, figs. 8, June 1923.)

Grain Sorghums versus corn for fattening lambs.--Third experiment. J.M. Jones and R.E. Dickson. Texas. Sta. Bul. 306. pp. 32, Feb. 1923.)

Truck crop insect pests in the Virgin Islands and methods of combating them.

C.E. Wilson. (Virgin Islands Sta. Bul. 4, pp. 35, figs. 24, June 1923.)

Plans for small barns. L.J. Smith. (Washington Sta. Pop. Bul. 123, pp. 26, figs. 26, Apr. 1923.)

Bimonthly bulletin of the Western Washington Experiment Station. (Western Washington Sta. Bimo. Bul. XI, No. 2, pp. 25-47, figs. 7, July 1923.)

UNITED STATES DEPARTMENT OF AGRICULTURE
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LIST OF STATION PUBLICATIONS
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NOTE.—The station publications noted in this list ARE NOT DISTRIBUTED BY THE DEPARTMENT OF AGRICULTURE, but can usually be obtained, as far as the supply will permit, by applying to the stations issuing them. An address list of the stations will be furnished upon request.

Legumes in relation to soil fertility. M.J. Funchess. (Alabama Sta. Circ. 48, pp. 18, figs. 3, Aug. 1923.)

Fertilizers for Delaware crops and soils. C.A. McCue and G.L. Schuster. (Delaware Sta. Circ. 12, pp. 12, figs. 11, July 1923.)

Report for the fiscal year ending June 30, 1922. (Florida Sta. Rpt. 1922, pp. 75R+VI, figs. 12.)

The feed cost of milk and fat production as related to yields. H.A. Ross, H. F. Hall, and C. S. Rhode. (Illinois Sta. Abs. Bul. 244, pp. 4, Aug. 1923.)

Infectious abortion in swine. (Illinois Sta. Circ. 271, pp. 4, figs. 2, June 1923.)

Apple blotch. M.W. Gardner, L. Greene, and C.E. Baker. (Indiana Sta. Bul. 267, pp. 32, figs. 12, Jan. 1923.)

Commercial fertilizers. E.G. Proulx et al. (Indiana Sta. Bul. 269, pp. 64, fig. 1, May 1923.)

Relation of types of tenancy to types of farming in Iowa. C.L. Holmes. (Iowa Sta. Bul. 214, pp. 323-364, figs. 14, May 1923.)

Cane and beet molasses for fattening lambs. J.M. Evvard, C.C. Culbertson, and Q.W. Wallace. (Iowa Sta. Bul. 215, pp. 370-400, figs. 3, April 1923.)

Relationships between hydrogen ion, hydroxyl ion, and salt concentrations, and the growth of seven soil molds. H.W. Johnson. (Iowa Sta. Res. Bul. 76, pp. 307-344, figs. 8, Jan. 1923.)

Annual report. (Iowa Sta. Rpt. 1922, pp. 64.)

Kansas State Live Stock Registry Board. (Kansas Sta. Insp. Circ. 13, pp. 119, figs. 3, Dec. 1920.)

The improvement in the horse industry in Kansas since 1910. (Kansas Sta. Insp. Circ. 15, pp. 3, Dec. 1921.)

Stallion registration work in Kansas. (Kansas Sta. Insp. Circ. 20, pp. 3, Dec. 1922.)

Thirty-fourth annual report. (Louisiana Sta. Rpt. 34 (1922), pp. 47.)

Meteorological observations at the Massachusetts agricultural experiment station. J.E. Ostrander and H.H. Shepard. (Massachusetts Sta. Met. Bul. 415, pp. 4, July 1923.)

Studies on the parasitism of Helminthosporium sativum. J.J. Christensen. (Minnesota Sta. Tech. Bul. 11, pp. 42, pls. 10, figs. 2, Nov. 1922.)

Studies of the physical ecology of the Noctuidae. W.C. Cook. (Minnesota Sta. Tech. Bul. 12, pp. 38, figs. 5, Mar. 1923.)

The parasitism of Colletotrichum lindemuthianum. J.G. Leach. (Minnesota Sta. Tech. Bul. 14, pp. 41, pls. 8, figs. 6, Mar. 1923.)

A study of the damping-off disease of coniferous seedlings. T.S. Hansen et al. (Minnesota Sta. Tech. Bul. 15, pp. 35, figs. 20, Apr. 1923.)

Thirtieth annual report. (Minnesota Sta. Rpt. 30 (1922), pp. 151, figs. 10.)

Preliminary reports of experiments with feeding steers, using cottonseed meal and molasses. E. Barnett and C.J. Godell. (Mississippi Sta. Circ. 48, pp. 12, fig. 1, Apr. 1923.)

Effect of shading and ringing upon the chemical composition of apple and peach trees. H.R. Kraybill. (New Hampshire Sta. Tech. Bul. 23, pp. 27, June 1923.)

Tractor farming in New Jersey. E.R. Gross and A.G. Waller. (New Jersey Stas. Bul. 386, pp. 24, figs. 7, May 1923.)

Egg prices and cold storage holdings. G.W. Hervey. (New Jersey Stas. Hints to Poultrymen, 11 (1923), No. 10, pp. 4, figs. 3, July 1923.)

New Jersey's poultry exhibitions. W.C. Thompson. New Jersey Stas. Hints to Poultrymen, 11 (1923), No. 11, pp. 4, fig. 1, Aug. 1923.)

Lamb feeding experiments. J.T. Lanton and M.G. Snell. (New Mexico Sta. Bul. 138, pp. 12, Apr. 1923.)

A few facts about the station and its work. (New York State Sta. [pamphlet] pp. 23, figs. 20.)

Cost accounts for six years on some successful New York farms. G.F. Warren et al. (New York Cornell Sta. Bul. 414, pp. 139, fig. 1, Feb. 1923.)

The morphology of the double kernel in Zea mays var. polysperma. Mildred E. Stratton. (New York Cornell Sta. Memoir 69, pp. 18, figs. 8, June 1923.)

- Farmers' Market Bulletin. (North Carolina Sta. Farmers' Market Bulletin, 10 (1923), No. 63, pp. 8, Aug. 1923.)
- County experiment farms in Ohio.--II. The Paulding County experiment farm. (Ohio Sta. Bul. 361, pt. 2, pp. 346-375, figs. 3, June 1922.)
- County experiment farms in Ohio.--IV. The Hamilton County experiment farm. (Ohio Sta. Bul. 361, pt. 4, pp. 414-438, fig. 1, June 1922.)
- County experiment farms in Ohio.--V. The Washington County experiment farm. (Ohio Sta. Bul. 361, pt. 5, pp. 440-473, fig. 1, June 1922.)
- County experiment farms in Ohio.--VII. The Mahoning County experiment farm. (Ohio Sta. Bul. 361, pt. 7, pp. 500-525, June 1922.)
- County experiment farms in Ohio.--VIII. The Belmont County experiment farm. (Ohio Sta. Bul. 361, pt. 8, pp. 528-541, June 1922.)
- County experiment farms in Ohio.--IX. The Madison County experiment farm. (Ohio Sta. Bul. 361, pt. 9, pp. 544-563, June 1922.)
- The cane fruit industry in Oregon. H. Hartman. (Oregon Sta. Circ. 48, pp. 28, figs. 10, July 1923.)
- Mosaic and other systemic diseases of brambles in Oregon. S.M. Zeller. (Oregon Sta. Circ. 49, pp. 15, figs. 9, July 1923.)
- Results of tobacco experiments in Pennsylvania, 1912 to 1922. (Pennsylvania Sta. Bul. 179, pp. 28, figs. 25, June 1923.)
- Winter wheat in South Dakota. A.T. Evans and G. Janssen. (South Dakota Sta. Bul. 200, pp. 487-516, fig. 1, Dec. 1922.)
- Some experiments with spring wheat in South Dakota. A.N. Hume and A.T. Evans. (South Dakota Sta. Bul. 201, pp. 518-560, Feb. 1923.)
- Soy bean v. alfalfa hay for milk production. E.L. Anthony and H.O. Henderson. (West Virginia Sta. Bul. 181, pp. 10, fig. 1, May 1923.)
- Nicotin dust kills cucumber beetles. J.E. Dudley, Jr., H.F. Wilson, and W.D. Mecum. (Wisconsin Sta. Bul. 355, pp. 10, figs. 4, June 1923.)
- Wintering range calves. (Wyoming Sta. Bul. 134, pp. 16, fig. 1, May 1923.)

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LIST OF STATION PUBLICATIONS
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The soils of Arkansas. N. Nelson, W. H. Sachs, and R. H. Austin. (Arkansas Sta. Bul. 187, pp. 33, pl. 1, figs. 24. June, 1923.)

Table service and etiquette for the home. C. H. Plunkett. (Arkansas Sta. Bul. 188, pp. 21, figs. 5. July, 1923.)

Report of the seed commissioner for the biennium 1921-22. C. B. Ahlson. (Idaho Sta. Rpt. 1921-22, pp. 16, figs. 2. Jan., 1923.)

Relation between percentage fat content and yield of milk.--Correction of milk yield for fat content. W. L. Gaines and F. A. Davidson. (Illinois Sta. Bul. 245, pp. 577-621, figs. 11. June, 1923.)

Feeding and management of the dairy herd. W. B. Nevens. (Illinois Sta. Circ. 272, pp. 47, figs. 11. Aug., 1923.)

Bacillary white diarrhea of chicks. (Illinois Sta. Circ. 273, pp. 4, figs. 5. Sept., 1923.)

Ninth annual report of the dairy department creamery license division for the year ending March 31, 1923. R. L. Hammond. (Indiana Sta. Circ. 111, pp. 19, figs. 2. June, 1923.)

Michikoff wheat, a hard red winter wheat for Indiana. A. T. Wiancko. (Indiana Sta. Circ. 112, pp. 4, figs. 2. June, 1923.)

Hessian fly control in Iowa. C. J. Drake, F. A. Fenton, and F. D. Butcher. (Iowa Sta. Circ. 86, pp. 11, figs. 5. July, 1923.)

Soil survey of Iowa.--Marshall County, W. H. Stevenson, P. E. Brown, et al. (Iowa Sta. Soil Survey Rpt. 25, pp. 64, pl. 1, figs. 14. July, 1922.)

Soil survey of Iowa.--Madison County. W. H. Stevenson, P. E. Brown, et al. (Iowa Sta. Soil Survey Rpt. 26, pp. 56, pl. 1, figs. 11. June, 1922.)

Soil survey of Iowa.--Adair County. W. H. Stevenson, P. E. Brown, et al. (Iowa Sta. Soil Survey Rpt. 27, pp. 62, pl. 1, figs. 18. July, 1922.)

- Soil survey of Iowa.--Cedar County. W. H. Stevenson, P. E. Brown, et al.
(Iowa Sta. Soil Survey Rpt. 28, pp. 63, pl. 1, figs. 14, June, 1922.)
- The marketing of Kentucky blue grass and orchard grass seeds. D. G. Card.
(Kentucky Sta. Bul. 247, pp. 33-61, figs. 6. June, 1923.)
- The sweet potato weevil in Louisiana and its control. C. F. Smith. (Louisiana
Stas. Bul. 188, pp. 24, figs. 5. Aug., 1923.)
- The cause and permanence of size differences in apple trees. K. Sax and J. W.
Gowen. (Maine Sta. Bul. 310, pp. 8, pl. 1, fig. 1. Feb., 1923.)
- Forecasting the date and duration of the best canning stage for sweet corn.
C. O. Appleman. (Maryland Sta. Bul. 254, pp. 47-56, fig. 1. May, 1923.)
- Meteorological observations at the Massachusetts station. J. E. Ostrander and
H. H. Shepard. (Massachusetts Sta. Met. Bul. 416, pp. 4. Aug. 1923.)
- The quarterly bulletin. (Michigan Sta. Quart. Bul. 6, No. 1, pp. 38, figs.
14. Aug., 1923.)
- Soil experiments on the gravelly Ozark upland. M. F. Miller and F. L. Duley.
(Missouri Sta. Bul. 202, pp. 22, figs. 13. Mar., 1923.)
- Soil experiments on the brown silt loam of the Ozark border region. M. F.
Miller and F. L. Duley. (Missouri Sta. Bul. 203, pp. 24, figs. 7. Apr.,
1923.)
- Controlling soil moisture for vegetable crops in Missouri, J. T. Rosa.
(Missouri Sta. Bul. 204, pp. 8, figs. 3. June, 1923.)
- The fruit-tree leaf-roller in the Bitter Root Valley. W. S. Regan. (Montana
Sta. Bul. 154, pp. 56, figs. 8. Feb., 1923.)
- Studies in egg preservation. D. B. Swingle and G. E. Poole. (Montana Sta.
Bul. 155, pp. 30, fig. 1. Feb., 1923.)
- Orchard cultural practices. H. Thornber. (Montana Sta. Bul. 156, pp. 19,
figs. 5. Mar., 1923.)
- Sweet corn in the higher altitudes. H. Thornber. (Montana Sta. Bul. 157,
pp. 19, figs. 3. Mar., 1923.)
- Testing agricultural seeds. W. O. Whitcomb. (Montana Sta. Circ. 114, pp. 17,
figs. 10. May, 1923.)
- Twenty-ninth annual report for the fiscal year ending June 30, 1923. (Montana
Sta. Rpt. 29 (1922), pp. 38. Feb., 1923.)
- Surface treatments for the cabbage maggot. W. C. O'Kane, C. R. Cleveland,
and C. H. Hadley. (New Hampshire Sta. Tech. Bul. 24, pp. 42. June, 1923.)
- Inheritance of size and conformation in sheep. E. G. Ritzman. (New
Hampshire Sta. Tech. Bul. 25, pp. 36, figs. 4. June, 1923.)

- A study of alkali and plant food under irrigation and drainage. C. W. Botkin. (New Mexico Sta. Bul. 136, pp. 44, figs. 11. Apr., 1923.)
- Observations on the life history of Taphrocerus gracilis (Say) (Beetle, family Buprestidae). R. N. Chapman. (New York Cornell Sta. Memoir 67, pp. 13, figs. 10. May, 1923.)
- How and when to prune apple trees. G. H. Howe. Summarized by J. D. Lockett. (New York State Sta. Bul. 500, pp. 7, figs. 3. July, 1923.)
- Commercial fertilizers in New York orchards. R. C. Collison and J. D. Harlan. Summarized by J. D. Lockett. (New York State Sta. Bul. 503, pp. 4. July, 1923.)
- The northern pig.--Its breeding and management. J. H. Shepperd. (North Dakota Sta. Bul. 167, pp. 52, figs. 12. July, 1923.)
- History of a "swamp fever" virus carrier. A. F. Schalk and L. M. Roderick. (North Dakota Sta. Bul. 163, pp. 14, pl. 1, figs. 6. Aug., 1923.)
- Winter wheat in North Dakota. L. R. Waldron and T. E. Stoa. (North Dakota Sta. Bul. 169, pp. 12. Aug., 1923.)
- A chemical study of legumes and other forage crops of western Oregon. J. S. Jones and D. E. Bullis. (Oregon Sta. Bul. 197, pp. 24. July, 1923.)
- Fattening lambs on alfalfa. E. L. Potter and H. K. Dean. (Oregon Sta. Bul. 198, pp. 16, figs. 4. Aug., 1923.)
- Control of the western peach and prune root borer, D. C. Mote. (Oregon Sta. Circ. 50, pp. 4, figs. 3. Aug., 1923.)
- "Active" aluminum as a factor detrimental to crop production in many acid soils. P. S. Burgess and F. R. Pember. (Rhode Island Sta. Bul. 194, pp. 40, figs. 6. June, 1923.)
- Bimonthly bulletin. (Western Washington Sta. Bimo. Bul. 11, No. 3, pp. 50-64. Sept., 1923.)



UNITED STATES DEPARTMENT OF AGRICULTURE
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E. W. ALLEN, CHIEF.

LIST OF STATION PUBLICATIONS
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NOTE.--The station publications noted in this list ARE NOT DISTRIBUTED BY THE DEPARTMENT OF AGRICULTURE, but can usually be obtained, as far as the supply will permit, by applying to the stations issuing them. An address list of the stations will be furnished upon request.

- Fungicidal dusts for the control of bunt. W. W. Mackie and F. N. Briggs. (California Sta. Bul. 364, pp. 533-572, pls. 3, figs. 12. May, 1923.)
- Sewing grain sacks. J. Koeber. (California Sta. Circ. 261, pp. 11, figs. 15. Apr., 1923.)
- The tendency of tractors to rise in front; causes and remedies. A. H. Hoffman. (California Sta. Circ. 267, pp. 8, figs. 8. June, 1923.)
- Grasshopper control in Colorado. C. L. Corkins. (Colorado Sta. Bul. 287, pp. 19, figs. 17. June, 1923.)
- Twenty-second report of the State entomologist for 1922. W. E. Britton. (Connecticut State Sta. Bul. 247, pp. 265-381, pls. 16, figs. 8. 1923.)
- Studies on certified seed potatoes, B. A. Brown and W. L. Slate, jr. (Connecticut Storrs Sta. Bul. 114, pp. 235-296. May, 1923.)
- White snakeroot poisoning in live stock. L. P. Doyle and F. L. Walkey. (Indiana Sta. Bul. 270, pp. 15, figs. 11. May, 1923.)
- Factors affecting the butter-fat test of cream samples. T. H. Broughton and R. L. Hammond. (Indiana Sta. Bul. 271, pp. 16, figs. 6. May, 1923.)
- Better cream for buttermaking. V. C. Manhart. (Indiana Sta. Circ. 113, pp. 12, figs. 7. June, 1923.)
- Ensiling versus drying soft ear corn. J. M. Evvard, A. R. Lamb, and E. J. Maynard. (Iowa Sta. Bul. 216, pp. 401-432, figs. 4. July, 1923.)
- Vinegar fermentation and home production of cider vinegar. A. R. Lamb and E. Wilson. (Iowa Sta. Bul. 218, pp. 14. Aug., 1923.)
- Raising orphan pigs.--I, Protein modifications of cows' whole milk, frequency of feeding, nutritive ratio studies. J. M. Evvard, G. V. Glatfelter, and Q. W. Wallace. (Iowa Sta. Research Bul. 79, pp. 441-493, figs. 3. July, 1923.)
- The volatile acids produced by starters and by organisms isolated from them. B. W. Hammer and F. F. Sherwood. (Iowa Sta. Research Bul. 80, pp. 15. July, 1923.)

- Studies on Streptococcus paracitrovorus group. B. W. Hammer and M. P. Baker. (Iowa Sta. Research Bul. 21, pp. 17-36. July, 1923.)
- Drawing up the farm lease. C. L. Holmes. (Iowa Sta. Circ. 87, pp. 32. Aug., 1923.)
- The Hessian fly in Kansas. J. W. McColloch. (Kansas Sta. Tech. Bul. 11, pp. 96, figs. 29. July, 1923.)
- Relative water requirement of corn and sorghums. E. C. Miller. (Kansas Sta. Tech. Bul. 12, pp. 34, figs. 5. Oct., 1923.)
- Cattle feeding investigations, 1921-22. C. W. McCampbell, H. B. Winchester, and H. W. Marston. (Kansas Sta. Circ. 97, pp. 8, fig. 1. Sept., 1923.)
- Swine feeding investigation, 1921-22. F. W. Bell, H. B. Winchester, and H. W. Marston. (Kansas Sta. Circ. 98, pp. 11, figs. 2. Oct., 1923.)
- House plants and their care. W. B. Balch. (Kansas Sta. Circ. 100, pp. 16, figs. 6. Oct., 1923.)
- Melilotus indica on fall plant sugar cane. W. G. Taggart. (Louisiana Stas. Bul. 189, pp. 11. Aug., 1923.)
- Abstracts of papers not included in bulletins, finances, meteorology, index. (Maine Sta. Bul. 309, pp. [2]+93-104+X. Dec., 1922.)
- Studies in milk secretion.--XIV, The effect of age on the milk yields and butter-fat percentages of Guernsey Advanced Registry cattle. J. W. Gowen. (Maine Sta. Bul. 311, pp. 9-20, figs. 2. June, 1923.)
- Foods and drugs. J. M. Bartlett. (Maine Sta. Off. Insp. 107, pp. 8. Apr., 1923.)
- Pedigree, the basis of selecting breeding males for egg production. F. A. Hays and R. Sanborn. (Massachusetts Sta. Bul. 215, pp. 42-51, figs. 3. Apr., 1923.)
- Meteorological observations at the Massachusetts Agricultural Experiment Station. J. E. Ostrander and H. H. Shepard. (Massachusetts Sta. Met. Bul. 417, pp. 4. Sept., 1923.)
- The Satsuma orange in south Mississippi. E. B. Ferris and F. B. Richardson. (Mississippi Sta. Bul. 217, pp. 28, figs. 5. Apr., 1923.)
- Grazing and feeding trials with hogs. E. Barnett and C. J. Goodell. (Mississippi Sta. Bul. 218, pp. 32, fig. 1. June, 1923.)
- Corn and soy beans for pork production. E. Barnett and C. J. Goodell. (Mississippi Sta. Circ. 49, pp. 7. Apr., 1923.)
- Feeding cottonseed meal to steers on grass. E. Barnett and C. J. Goodell. (Mississippi Sta. Circ. 50, pp. 3. June, 1923.)

- A new method of making engine oil emulsions. A. M. Burroughs. (Missouri Sta. Bul. 205, pp. 8, figs. 4. Aug., 1923.)
- Turkey management. W. F. Schoppe. (Montana Sta. Circ. 115, pp. 23, figs. 5. June, 1923.)
- The abortion problem in farm live stock. L. Van Es. (Nebraska Sta. Circ. 21, pp. 46, figs. 2. Sept., 1923.)
- Biochemical oxidation of sulfur and its significance to agriculture. J. S. Joffe. (New Jersey Stas. Bul. 374, pp. 91, figs. 4. Dec., 1922.)
- Fumigation of potting soil with carbon bisulfide for the control of the Japanese beetle (Popillia japonica, Newm.). W. E. Fleming. (New Jersey Stas. Bul. 380, pp. 45, figs. 7. Jan., 1923.)
- Ten years of potato spraying in New Jersey. W. H. Martin. (New Jersey Stas. Bul. 383, pp. 32. Apr., 1923.)
- Late blight of potatoes and the weather. W. H. Martin. (New Jersey Stas. Bul. 384, pp. 23, figs. 2. Apr., 1923.)
- Poultry farming in New Jersey. A. G. Waller and W. C. Thompson. (New Jersey Stas. Circ. 153, pp. 31, figs. 8. May, 1923.)
- Organizing a poultry plant. G. G. Sawyer. (New Jersey Stas. Hints to Poultrymen, vol. 11, No. 12, pp. 4, fig. 1. Sept., 1923.)
- Some lessons from production records. G. W. Hervey. (New Jersey Stas. Hints to Poultrymen, vol. 12, No. 1, pp. 4. Oct., 1923.)
- Alfalfa. G. R. Quesenberry. (New Mexico Sta. Bul. 139, pp. 19, figs. 7. May, 1923.)
- Three little-known clover insects. J. D. Detwiler. (New York Cornell Sta. Bul. 420, pp. 23, figs. 24. May, 1923.)
- Economic studies of dairy farming in New York.--I, Condensery milk without cash crops. E. G. Misner. (New York Cornell Sta. Bul. 421, pp. 79, figs. 9. June, 1923.)
- The inheritance of blotch leaf in maize. R. A. Emerson. (New York Cornell Sta. Mem. 70, pp. 16, pls. 3. June, 1923.)
- Some studies on the neutralization of cream for butter making. H. C. Jackson. (New York Cornell Sta. Mem. 71, pp. 18. July, 1923.)
- Farmers' Market Bulletin. (North Carolina Sta. Farmers' Market Bul., vol. 10, No. 64, pp. 8. Sept., 1923.)
- Hybridization of Vitis rotundifolia.--Inheritance of anatomical stem characters. C. F. Williams. (North Carolina Sta. Tech. Bul. 23, pp. 31, pls. 2, figs. 16. June, 1923.)

North Dakota pure seed law.--Interpretations and suggestions. H. L. Bolley and O. A. Stevens. (North Dakota Sta. Circ. 20 (Rev. of Spec. Seed Bul. 2), pp. 7. July, 1923.)

Seed certification and listing. H. L. Bolley and O. A. Stevens. (North Dakota Sta. Circ. 21 (Rev. of Pure Seed Circ. 10), pp. 4, figs. 2. July, 1923.)

Author index of the publications of the Pennsylvania Agricultural Experiment Station. W. Frear and T. I. Mairs. (Pennsylvania Sta. Bul. 180, pp. 56. Aug., 1923.)

Velvet beans for dairy cows. J. P. Lamaster and I. R. Jones. (South Carolina Sta. Bul. 216, pp. 16, figs. 4. Sept., 1923.)

Analyses of commercial fertilizers, R. N. Brackett. (South Carolina Sta. Bul. 217, pp. 58. Aug., 1923.)

Cotton culture in Tennessee. C. A. Mooers and S. A. Robert. (Tennessee Sta. Bul. 127, pp. 19, figs. 6. Apr., 1923.)

Swine feeding experiments. G. R. Warren and D. W. Williams. (Texas Sta. Bul. 305, pp. 41, figs. 2. Feb., 1923.)

Texas root rot of cotton and methods of its control. J. J. Taubenhaus and D. T. Killough. (Texas Sta. Bul. 307, pp. 98, figs. 15. Apr., 1923.)

The practicability of the milking machine. J. L. Lush. (Texas Sta. Circ. 30, pp. 23, figs. 2. Apr., 1923.)

Influence of rations fed to growing chickens on the characteristics of the adult females. H. Atwood (West Virginia Sta. Bul. 179, pp. 39, figs. 15. June, 1923.)

UNITED STATES DEPARTMENT OF AGRICULTURE
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Production of improved hardy strawberries for Alaska. C. C. Georgeson. (Alaska Stas. Bul. 4, pp. [2]+13, pls. 10. Oct., 1923.)

Effect of salts on the intake of inorganic elements and on the buffer system of the plant. D. R. Hoagland and J. C. Martin. (California Sta. Tech. Paper 8, pp. 26, figs. 5. July, 1923.)

Experiments on the reclamation of alkali soils by leaching with water and gypsum. P. L. Hibbard. (California Sta. Tech. Paper 9, pp. 14. Aug., 1923.)

The seasonal variation of the soil moisture in a walnut grove in relation to the hygroscopic coefficient. L. D. Batchelor and H. S. Reed. (California Sta. Tech. Paper 10, pp. 31, figs. 7. Sept., 1923.)

Studies on the effects of sodium, potassium, and calcium on young orange trees. H. S. Reed and A. R. C. Haas. (California Sta. Tech. Paper 11, pp. 32, pls. 5. Oct., 1923.)

Report of the Connecticut Agricultural Experiment Station, New Haven, Conn., on food products and drugs, 1922. Part II. E. M. Bailey. (Connecticut State Sta. Bul. 248, pp. 383-443. Mar., 1923.)

Report on commercial feeding stuffs, 1922. E. M. Bailey. (Connecticut Sta. Bul. 249, pp. 445-475. Apr., 1923.)

The sweet potato in Hawaii. H. L. Chung. (Hawaii Sta. Bul. 50, pp. II+20, pls. 4. Oct., 1923.)

Temperature experiments during the incubation of hen eggs. A. G. Philips and F. D. Brooks. (Indiana Sta. Bul. 275, pp. 16, figs. 5. Nov., 1923.)

Dry rot of corn. L. W. Durrell. (Iowa Sta. Research Bul. 77, pp. 345-376, pls. 3, figs. 13. July, 1923.)

Bionomics and control of the potato leafhopper, Empoasca mali Le Baron. F. A. Fenton and A. Hartzell. (Iowa Sta. Research Bul. 78, pp. 377-440, pl. 1, figs. 22. July, 1923.)

Poultry breeding records. W. A. Lippincott. (Kansas Sta. Circ. 99, pp. 34, figs. 25. Oct., 1923.)

- Commercial feeding stuffs, 1922-1923. J. M. Bartlett. (Maine Sta. Off. Insp. 108, pp. 9-28. Aug., 1923.)
- Moisture relations of peach buds during winter and spring. E. S. Johnston. (Maryland Sta. Bul. 255, pp. 57-88, figs. 9. June, 1923.)
- Digestion experiments with cattle feeds. J. B. Lindsey, C. L. Beals, P. H. Smith, and J. G. Archibald. (Massachusetts Sta. Bul. 216, pp. 52-62. June, 1923.)
- Meteorological observations at the Massachusetts Agricultural Experiment Station, J. E. Ostrander and H. H. Shepard. (Massachusetts Sta. Met. Bul. 418, pp. 4. Oct., 1923.)
- The colorimetric hydrogen-ion determination as a means of locating faulty methods at city milk plants. L. H. Cooledge. (Michigan Sta. Spec. Bul. 124, pp. 19, figs. 4. Sept., 1923.)
- The normal and pathological history of the ventriculus of the honey bee, with special reference to infection with Nosema apis. M. Hertig. (Minnesota Sta. Tech. Bul. 13, pp. [2]+109-140, pls. 3. July, 1923.)
- Scale insects of Missouri. A. H. Hollinger. (Missouri Sta. Research Bul. 58, pp. 71, pls. 7. Apr., 1923.)
- The chemical nature of a colloidal clay. R. Bradfield. (Missouri Sta. Research Bul. 60, pp. 60, figs. 7. June, 1923.)
- Picking, handling and exhibiting fruit. T. J. Talbert and A. M. Burroughs. (Missouri Sta. Circ. 113, pp. 7, fig. 1. Aug., 1923.)
- Soils of Sheridan County.--Preliminary report. L. F. Giesecker. (Montana Sta. Bul. 158, pp. 20, pls. 4. Apr., 1923.)
- Chemical analyses of Montana soils. E. Burke and R. M. Pinckney. (Montana Sta. Bul. 159, pp. 13. Aug., 1923.)
- The more important poultry diseases. L. Van Es and H. M. Martin. (Nebraska Sta. Bul. 195, pp. 71, figs. 15. Oct., 1923.)
- Nebraska farm tenancy--Some community phases. J. O. Rankin. (Nebraska Sta. Bul. 196, pp. 50, figs. 25. Oct., 1923.)
- Winter lamb feeding, 1919-20, 1920-21, 1921-22. W. H. Savin. (Nebraska Sta. Bul. 197, pp. 23, fig. 1. Oct., 1923.)
- "Ammono-phos:" Its effects upon seed germination and plant growth. D. G. Coe, (New Jersey Stas. Bul. 375, pp. 102, figs. 32. Jan., 1923.)
- Some principles which underlie the making and use of nicotine dust. T. J. Headlee and W. Rudolfs. (New Jersey Stas. Bul. 381, pp. 47, figs. 18. Jan., 1923.)
- Para-dichlorobenzene (p-c-benzen) for controlling the peach-tree borer. A. Peterson. (New Jersey Stas. Circ. 156 (revision of Circ. 126), pp. 12, figs. 3. Sept., 1923.)

- Alfalfa fertilizer experiments. C. E. Craig and W. T. Conway. (New Mexico Sta. Bul. 137, pp. 22, pl. 1, fig. 1. Mar., 1923.)
- Studies of various factors influencing the yield and the duration of life of meadow and pasture plants. R. S. Wiggans. (New York Cornell Sta. Bul. 424, pp. 24, fig. 6, Aug., 1923.)
- The monthly bulletin. (Ohio Sta. Mo. Bul., vol. 8, No. 9-10. pp. 129-160. figs. 11. Sept.-Oct., 1923.)
- Thirty-sixth annual report of the director for the fiscal year ending June 30, 1923. (Pennsylvania Sta. Bul. 181, pp. 28, fig. 1. Sept., 1923.)
- On the amount of stable manure necessary for vegetable growing. B. L. Hartwell and F. K. Crandall. (Rhode Island Sta. Bul. 195, pp. 16. Aug., 1923.)
- Pasteurization of market milk in the glass enameled tank and in-the-bottle. T. H. Wright, Jr. (South Dakota Sta. Bul. 203, pp. 19. June, 1923.)
- A farm-management study of the Great Salt Lake Valley. G. Stewart. (Utah Sta. Bul. 184, pp. 44, figs. 13. May, 1923.)
- The influence of nitrogen in soil on azofication. J. E. Greaves and D. H. Nelson. (Utah Sta. Bul. 185, pp. 23. July, 1923.)
- Irrigation experiments with sugar beets. F. S. Harris and D. W. Pittman. (Utah Sta. Bul. 186, pp. 19, figs. 10. Sept., 1923.)
- Irrigation experiments with potatoes. F. S. Harris and D. W. Pittman. (Utah Sta. Bul. 187, pp. 15, figs. 6. Sept., 1923.)
- Rural credits in Utah. E. B. Brossard. (Utah Sta. Circ. 48, pp. 42, fig. 1. Sept., 1923.)
- The feeding and management of dairy calves. E. V. Ellington and J. C. Knott. (Washington Sta. Bul. 178, pp. 31, figs. 10. Sept., 1923.)
- Bimonthly bulletin. (Western Washington Sta. Bimo. Bul. 11, No. 4, pp. 65-88, figs. 4. Nov., 1923.)
- The fishy flavor in butter. H. H. Sommer and B. J. Smit. (Wisconsin Sta. Research Bul. 57, pp. 51. Oct., 1923.)

UNITED STATES DEPARTMENT OF AGRICULTURE
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Harvesting and storing sweet potatoes. J. C. C. Price. (Alabama College Sta. Bul. 220, pp. 14, figs. 6. Nov., 1923.)

Avocado culture in California: Part I, History, culture, varieties, and marketing, by K. Ryerson; Part II, Composition and food value, by M. E. Jaffa and H. Goss. (California Sta. Bul. 365, pp. 571-638, figs. 19. June, 1923.)

Bacterial decomposition of olives during pickling. W. V. Cruess and E. H. Guthier. (California Sta. Bul. 368, pp. 15, figs. 5. July, 1923.)

Selected list of references relating to irrigation in California. R. Venable. (California Sta. Circ. 260, pp. 64. April, 1923.)

Analyzing the citrus orchard by means of simple tree records. R. W. Hodgson. (California Sta. Circ. 266, pp. 20, figs. 11. June, 1923.)

The pit silo. J. W. Sjogren. (Colorado Sta. Bul. 283, pp. 12, figs. 9. Oct., 1923.)

Alfalfa in Connecticut. D. A. Brown and W. L. Slate, Jr. (Connecticut Storrs Sta. Bul. 115, pp. 299-323. June, 1923.)

Clostridium botulinum type C - A pathogenic anaerobe associated with a limberneck-like disease in chickens and ducks. R. Graham and I. B. Boughton. (Illinois Sta. Bul. 246, pp. 34, figs. 9. Oct., 1923.)

Begin to fight the corn borer now. W. P. Flint, J. C. Hackleman, and F. C. Bauer. (Illinois Sta. Circ. 274, pp. 8, figs. 6. Nov., 1923.)

Feeding for egg production. L. E. Card. (Illinois Sta. Circ. 275, pp. 12, figs. 4. Nov., 1923.)

A study of the cost of producing wheat and oats in central and southern Indiana. M. H. Overton. (Indiana Sta. Bul. 272, pp. 24, figs. 6. June, 1923.)

Sheep feeding. - Fattening western lambs. XII, 1922-1923. J. H. Skinner and F. G. King. (Indiana Sta. Bul. 273, pp. 13, fig. 1. June, 1923.)

- Pruning young apple trees. F. P. Cullinan and C. E. Baker. (Indiana Sta. Bul. 274, pp. 40, figs. 13. May, 1923.)
- ✓ Marketing milk in six cities of Kansas. F. L. Thomsen. (Kansas Sta. Bul. 230, pp. 32, figs. 9. Nov., 1923.)
- Analyses of commercial fertilizers. H. E. Curtis, H. R. Allen, and L. Gault, (Kentucky Sta. Bul. 245, pp. 297-378. Dec., 1922.)
- Potato spindle-tuber. D. Folsom. (Maine Sta. Bul. 312, pp. 19-44, pls. 4. figs. 2. Aug., 1923.)
- Meteorological observations at the Massachusetts Agricultural Experiment Station. J. E. Ostrander and H. H. Shepard. (Massachusetts Sta. Met. Bul. 419, pp. 4. Nov., 1923.)
- Control of bacillary white diarrhea, 1922-1923. G. E. Gage and O. S. Flint. (Massachusetts Sta. Control Ser. Bul. 23, pp. 10, fig. 1. Sept., 1923.)
- The septic tank and tile sewage disposal system. H. H. Musselman and O. E. Robey. (Michigan Sta. Spec. Bul. 119, pp. 23, figs. 14. Aug., 1923.)
- Improvement of the farm woodlot. A. K. Chittenden. (Michigan Sta. Spec. Bul. 122, pp. 22, figs. 7. Sept., 1923.)
- Second growth hardwood forests in Michigan. P. L. Buttrick. (Michigan Sta. Spec. Bul. 123, pp. 19, figs. 5. Sept., 1923.)
- The quarterly bulletin. (Michigan Sta. Quart. Bul., vol. 6, No. 2, pp. 41-78, figs. 10. Nov., 1923.)
- Normal growth of domestic animals. C. R. Moulton et al. (Missouri Sta. Research Bul. 62, pp. 58, figs. 54. Nov., 1923.)
- Seed potato investigations. H. O. Werner and R. F. Howard. (Nebraska Sta. Research Bul. 24, pp. 58, figs. 23. Dec., 1923.)
- A study of the environmental conditions influencing the development of stem rust in the absence of an alternate host. II. infection studies with *Puccinia graminis tritici*, form III and form IX. G. L. Peltier. (Nebraska Sta. Research Bul. 25, pp. 52, pls. 12. Dec., 1923.)
- Analyses of commercial feeding stuffs and registrations for 1923. C. S. Cathcart. (New Jersey Stas. Bul. 387, pp. 70, fig. 1. Aug., 1923.)
- A farm account manual for New Jersey farmers. H. Keller, Jr. (New Jersey Stas. Circ. 160, pp. 31, fig. 33. Nov., 1923.)
- Vitamins and their relation to poultry diseases. F. R. Beaudette. (New Jersey Stas. Hints to Poultrymen, vol. 12, No. 2, pp. 4, figs. 2. Nov., 1923.)

Report of egg laying contests for 1923. R. B. Hannes and F. H. Clickner.
(New Jersey Stas. Hints to Poultrymen, vol. 12, No. 3, pp. 4. Dec., 1923.)

The social areas of Otsego County. D. Sanderson and W. S. Thompson. (New York Cornell Sta. Bul. 422, pp. 40, pls. 3, figs. 6. July, 1923.)

The standard of life in a typical section of diversified farming. E. L. Kirkpatrick. (New York Cornell Sta. Bul. 423, pp. 133, figs. 24, July, 1923.)

Studies on the treatment and disposal of dairy wastes. C. L. Walker et al.
(New York Cornell Sta. Bul. 425, pp. 170, pls. 18, figs. 19. Nov., 1923.)

A statistical study of some field plat yields: I, Tobacco investigations at Baldwinsville in cooperation with the Bureau of Plant Industry, United States Department of Agriculture. II, The clover vs. timothy experiment on the station farm at Geneva. III, Fertilizer plat experiments on the station farm at Geneva. R. C. Collison and J. D. Harlan. (New York State Sta. Tech. Bul. 94, pp. 64, figs. 5. July, 1923.)

Studies with phytosterols: Phytosterols of corn oil, cottonseed oil and linseed oil. R. J. Anderson and M. G. Moore. (New York State Sta. Tech. Bul. 95, pp. 16, Aug., 1923.)

Chemical studies of grape pigments: The anthocyanins in Norton and Concord grapes. R. J. Anderson. (New York State Sta. Tech. Bul. 96, pp. 19. Aug., 1923.)

Forty-second annual report for the fiscal year ended June 30, 1923.
R. W. Thatcher. (New York State Sta. Rpt., 42 (1923), pp. 50.)

Digestive coefficients of poultry feeds and rapidity of digestion and fate of grit in the fowl. B. F. Kaupp and J. E. Ivey. (North Carolina Sta. Tech. Bul. 22, pp. 143, figs. 13. June, 1923.)

Nitrification and acidity in the muck soils of North Carolina. L. G. Willis.
(North Carolina Sta. Tech. Bul. 24, pp. 14. Nov., 1923.)

Farmers' Market Bulletin. (North Carolina Sta. Farmers' Market Bul., vol. 10, No. 65, pp. 12, figs. 2. Nov., 1923.)

Farmers' Market Bulletin. (North Carolina Sta. Farmers' Market Bul., vol. 10, No. 66, pp. 8. Dec., 1923.)

The strawberry. P. Thayer. (Ohio Sta. Bul. 364, pp. 61-93, figs. 31. June, 1923.)

Prices of Ohio farm products. J. I. Falconer. (Ohio Sta. Bul. 365, pp. 99-143, figs. 10. June, 1923.)

The insects of the soybean in Ohio. W. V. Balduf. (Ohio Sta. Bul. 366, pp. 145-181, figs. 9. June, 1923.)

A comparison of types of lands and systems of production. J. W. Hammond. (Ohio Sta. Bul. 367, pp. 183-239, figs. 9. June, 1923.)

Potato hopperburn (tipburn) control with Bordeaux mixture. T. H. Parks and E. E. Clayton. (Ohio Sta. Bul. 368, pp. 241-258, figs. 7. June, 1923.)

Field corn and silage corn for silage. C. C. Hayden and A. E. Perkins. (Ohio Sta. Bul. 369, pp. 253-238. June, 1923.)

Losses and exchanges of material during the storage of corn as silage. A. E. Perkins. (Ohio Sta. Bul. 370, pp. 289-306. June, 1923.)

Standard fertilizer formulas and their use. G. S. Fraps. (Texas Sta. Circ. 31, pp. 7. Sept., 1923.)

Concerning blood complement. F. A. Rich. (Vermont Sta. Bul. 230, pp. 24, pls. 4. Mar., 1923.)

Concerning infectious abortion. F. A. Rich. (Vermont Sta. Bul. 231, pp. 32, figs. 2. Apr., 1923.)

Sterility of strawberries. Strawberry breeding. M. B. Cummings and E. W. Jenkins. (Vermont Sta. Bul. 232, pp. 61, pls. 2, figs. 6. May, 1923.)

Agricultural seed inspection. A. S. Lutman. (Vermont Sta. Bul. 233, pp. 8. Oct., 1923.)

Commercial fertilizers. J. L. Hills, C. H. Jones, and G. F. Anderson. (Vermont Sta. Bul. 234, pp. 24. July, 1923.)

Studies in tolerance of New England forest trees: IV, Minimum light requirement referred to a definite standard. G. P. Burns. (Vermont Sta. Bul. 235, pp. 32, pls. 4, figs. 14. July, 1923.)

Commercial feeding stuffs. J. L. Hills, C. H. Jones, and G. F. Anderson. (Vermont Sta. Bul. 236, pp. 31. Sept., 1923.)

Corn breeding. C. W. Lindstrom. (Wisconsin Sta. Bul. 356, pp. 38 + [1], figs. 10. Aug., 1923.)

Garbage for fattening pigs. F. S. Hultz and L. F. Reeve. (Wyoming Sta. Bul. 135, pp. 17-26, fig. 1. May, 1923.)

Avian type of tuberculosis in cattle: Injection and testing. C. Elder and A. M. Lee. (Wyoming Sta. Bul. 136, pp. 27-41, figs. 3. June, 1923.)

